

56003308

Canadian Polar Commission.

Canadian Polar Commission, 2000-2001 annual report—Rapport annuel 2000-2001, Commission canadienne des affaires polaires: **Annual Report - Canadian Polar Commission**, 2000-2001, 19 p., (English, French), illus., 2001.

56004832

Delmonte, B. (Laboratoire de Glaciologie et de Géophysique de l'Environnement, Saint Martin d'Heres, France); Petit, J. R. and Maggi, V.

Glacial to Holocene implications of the new 27000-year dust record from the EPICA Dome C (East Antarctica) ice core: **Climate Dynamics**, 18(8), p. 647-660, illus. incl. 3 tables, sketch map, 64 ref., April 2002.

56004867

Lavoie, Claude (Université Laval, Centre de Recherche en Aménagement et en Développement, Sainte-Foy, PQ, Canada) and Arseneault, Dominique.

Late Holocene climate of the James Bay area, Québec, Canada, reconstructed using fossil beetles: **Arctic, Antarctic, and Alpine Research**, 33(1), p. 13-18, illus. incl. 1 table, 36 ref., February 2001.

56004868

Andreev, Andrei A. (NASA, Goddard Institute for Space Studies, New York, NY); Peteet, Dorothy M.; Tarasov, Pavel E.; Romanenko, Fedor A.; Filimonova, Ludmila V. and Sulerzhitsky, Leopold D.

Late Pleistocene interstadial environment on Faddeyevskiy Island, East-Siberian Sea, Russia: **Arctic, Antarctic, and Alpine Research**, 33(1), p. 28-35, illus. incl. 4 tables, sketch map, 49 ref., February 2001.

56004869

Ziaja, Wieslaw (Jagiellonian University, Institute of Geography, Cracow, Poland).

Glacial recession in Sorkapland and central Nordenskioldland, Spitsbergen, Svalbard, during the 20th century: **Arctic, Antarctic, and Alpine Research**, 33(1), p. 36-41, illus. incl. 1 table, sketch maps, 16 ref., February 2001.

56004870

Müller, Torsten (Humboldt-Universität zu Berlin, Institut für Biologie, Berlin, Federal Republic of Germany); Leya, Thomas and Fuhr, Günter.

Persistent snow algal fields in Spitsbergen; field observations and a hypothesis about the annual cell circulation: **Arctic, Antarctic, and Alpine Research**, 33(1), p. 42-51, illus. incl. sketch maps, 40 ref., February 2001.

56004871

Svitski, James P. M. (University of Colorado, Institute of Arctic and Alpine Research, Boulder, CO); Stein, Andrew B.; Andrews, John T. and Milliman, John D.

Icebergs and the sea floor of the East Greenland (Kangerlussuaq) continental margin: **Arctic, Antarctic, and Alpine Research**, 33(1), p. 52-61, illus. incl. sects., sketch maps, 36 ref., February 2001.

56004872

Clark, Ian D. (University of Ottawa, Department of Earth Sciences, Ottawa, ON, Canada); Lauriol, Bernard; Harwood, Lois and Marschner, Mark.
Groundwater contributions to discharge in a permafrost setting, Big Fish River, N.W.T., Canada: **Arctic, Antarctic, and Alpine Research**, 33(1), p. 62-69, illus. incl. 2 tables, sketch maps, 18 ref., February 2001.

56004873

Beilman, David W. (University of Alberta, Department of Biological Sciences, Edmonton, AB, Canada); Vitt, Dale H. and Halsey, Linda A.
Localized permafrost peatlands in Western Canada; definition, distributions, and degradation: **Arctic, Antarctic, and Alpine Research**, 33(1), p. 70-77, illus. incl. 2 tables, sketch maps, 41 ref., February 2001.

56004874

Munroe, J. S. (University of Wisconsin, Department of Geology and Geophysics, Madison, WI) and Bockheim, J. G.
Soil development in low-Arctic tundra of the northern Brooks Range, Alaska, U.S.A.: **Arctic, Antarctic, and Alpine Research**, 33(1), p. 78-87, illus. incl. 5 tables, sketch maps, 36 ref., February 2001.

56004875

Karlsson, P. S. (Royal Swedish Academy of Sciences, Abisko Scientific Research Station, Abisko, Sweden) and Weih, Martin.
Soil temperatures near the distribution limit of the mountain birch (*Betula pubescens* ssp. *czerapanovii*); implications for seedling nitrogen economy and survival: **Arctic, Antarctic, and Alpine Research**, 33(1), p. 88-92, illus. incl. 2 tables, 35 ref., February 2001.

56004876

Luzar, Nicole (Justus-Liebig-Universität, Institut für Pflanzenökologie, Giessen, Federal Republic of Germany) and Gottsberger, Gerhard.
Flower heliotropism and floral heating of five alpine plant species and the effect on flower visiting in *Ranunculus montanus* in the Austrian Alps: **Arctic, Antarctic, and Alpine Research**, 33(1), p. 93-99, illus. incl. 7 tables, 29 ref., February 2001.

56004877

Seastedt, T. R. (University of Colorado, Department of Environmental, Population, and Organismic Biology, Boulder, CO) and Vaccaro, Lynn.
Plant species richness, productivity, and nitrogen and phosphorus limitations across a snowpack gradient in alpine tundra, Colorado, U.S.A.: **Arctic, Antarctic, and Alpine Research**, 33(1), p. 100-106, illus. incl. 2 tables, 19 ref., February 2001. Includes appendices.

56004878

McCarthy, Daniel P. (Brock University, Department of Earth Sciences, Saint Catharines, ON, Canada) and Zaniewski, Kamil.
Digital analysis of lichen cover; a technique for use in lichenometry and lichenology: **Arctic, Antarctic, and Alpine Research**, 33(1), p. 107-113, illus. incl. sketch map, 15 ref., February 2001.

56004932

Schweizer, Jürg (Swiss Federal Institute for Snow and Avalanche Research, Davos, Switzerland) and Lütschg, Martina.

Measurements of human-triggered avalanches from the Swiss Alps: **The Avalanche Review**, 20(1), p. 1, 10-11, illus. incl. 1 table, 15 ref., 2001.

56004933

Tremper, Bruce.

Stairs Gulch avalanche fatalities: **The Avalanche Review**, 20(1), p. 4-5, illus., 2001.

56004934

Johnson, Russ.

Progress in the explosives world: **The Avalanche Review**, 20(1), p. 6, 2001.

56004935

Deems, Jeff.

The snow temperature profile probe: **The Avalanche Review**, 20(1), p. 7, illus., 2001.

56005254

von Quillfeldt, Cecilie H. (Norsk Polarinstitut, Tromso, Norway); Eliassen, Jens-Eric; Foyn, Lars; Gulliksen, Bjorn; Lydersen, Christian and Marstrander, Lyder.

Marine verdier i havomradene rundt Svalbard; oversikt over marine områder i territorialfarvannet og fiskevernonen med behov for vern eller andre forvaltningsstiltak [Marine values in sea territory around Svalbard; overview of marine territory in territorial waters and fisheries conservation zones with need for protection of other administrative areas]: **Rapportserie - Norsk Polarinstitutt**, 118, 100 p. (English sum.), illus. incl. geol. sketch maps, 24 tables, block diag., 149 ref., May 2002. ISBN: 82-7666-187-4. Includes appendix.

56005264

Sommerville, Pete, chairperson (Heurisko, New Zealand).

Arctic science education; recommendations from the working group on Arctic science education to the National Science Foundation; proceedings from the meeting: 56 p., illus., 14 ref., 2000.

Available from: Arctic Research Consortium of the U. S., Fairbanks, AK, United States. *Meeting:* March 30-April 1, 2000, Fairbanks, AK. Includes 4 appendices.

publisher <http://www.arcus.org>

56005311

Fluckiger, Jacqueline (University of Bern, Climate and Environmental Physics, Bern, Switzerland); Monnin, Eric; Stauffer, Bernhard; Schwander, Jakob; Stocker, Thomas F.; Chappellaz, Jérôme; Raynaud, Dominique and Barnola, Jean-Marc.

High-resolution Holocene N₂O ice core record and its relationship with CH₄ and CO₂: **Global Biogeochemical Cycles**, 16(1), 8 p., illus. incl. 1 table, 59 ref., March 2002. European Project for Ice Coring in Antarctica (EPICA) Publ. No. 41.

56005384

Andersson, Annika (Lulea University of Technology, Department of Environmental Planning and Design, Lulea, Sweden).

Frazil ice at water intakes: **Doctoral Thesis - Lulea University of Technology**, 1997:04, 64 p., illus. incl. 4 tables, 49 ref., Doctoral, January 1997, Lulea University of Technology, Lulea. Includes appendices.

56005415

Polyak, Leonid (Ohio State University, Byrd Polar Research Center, Columbus, OH); Korsun, Sergei; Febo, Lawrence A.; Stanovoy, Vladimir; Khushid, Tatyana; Hald, Morten; Paulsen, Bjorn Egil and Lubinski, David J.

Benthic foraminiferal assemblages from the southern Kara Sea, a river-influenced arctic marine environment: **Journal of Foraminiferal Research**, 32(3), p. 252-273, illus. incl. 2 plates, 3 tables, sketch maps, 98 ref., July 2002. Includes appendices; Byrd Polar Res. Cent., Publ. No. 1263.

56005437

Ismagilov, T. R. (Rossiiskaia Akademiiia Nauk, Sibirskoe Otdelenie, Institut Kriosfery Zemli, Tyumen, Russian Federation); Iudenko, A. E. and Patrakova, I. I.

Avtomatizirovannyte tekhnologii vedeniya, sbora i analiza dannykh po osnovnym istochnikam zagryazneniiia; elektronnye protokoly [Automated technologies of running, collection and analyzing data based on pollution sources; electronic protocols]: **Kriosfera Zemli**, 2(3), p. 20-27 (English sum.), illus. incl. 7 tables, sketch map, 4 ref., September 1998.

56005438

Vakhov, D. N. (Rossiiskaia Akademiiia Nauk, Sibirskoe Otdelenie, Institut Kriosfery Zemli, Tyumen, Russian Federation) and Ylasov, E. V.

Mathematiceskie modeli i sistemy nablyudeniiia urovnya zagryaznennosti vodotokov v rayonakh neftyanykh mestorozhdenii [Mathematical models and observation systems to monitor stream water pollution levels in oil and gas field areas]: **Kriosfera Zemli**, 2(3), p. 28-35 (English sum.), illus. incl. table, 8 ref., September 1998.

56005439

Shmeleva, T. A. (Rossiiskaia Akademiiia Nauk, Sibirskoe Otdelenie, Institut Kriosfery Zemli, Tyumen, Russian Federation) and Vakhov, D. N.

Geoinformatsionnye tekhnologii kontrolya za sostoianiem zagryaznennykh uchastkov neftyanykh mestorozhdenii [Geoinformation technologies to control conditions of polluted sites in oil and gas fields]: **Kriosfera Zemli**, 2(3), p. 36-43 (English sum.), illus., 8 ref., September 1998.

56005440

Solov'ev, I. G. (Rossiiskaia Akademiiia Nauk, Sibirskoe Otdelenie, Institut Kriosfery Zemli, Tyumen, Russian Federation); Baklanov, A. V. and Kalaidzhan, V. M.

Territorial'nyy resursno-ekologicheskii monitoring; sostoianie, problemy, etapy razvitiia, primery [Territorial resource-ecological monitoring; condition, problems, stages of development and examples]: **Kriosfera Zemli**, 2(3), p. 48-55 (English sum.), illus. incl. sketch maps, 5 ref., September 1998.

56005441

Baklanov, A. V. (Rossiiskaia Akademiiia Nauk, Sibirskoe Otdelenie, Institut Kriosfery Zemli, Tyumen, Russian Federation); Medvedev, A. Iu. and Ismagilov, T. R.

Geoinformatsionnoe modelirovanie ekologicheskogo sostoianiiia territorii neftyanykh mestorozhdenii [Geoinformation modeling of ecological condition of oil and gas fields]: **Kriosfera Zemli**, 2(3), p. 61-69 (English sum.), illus. incl. table, 7 ref., September 1998.

56005442

Mel'nikov, E. S. (Rossiiskaia Akademii Nauk, Sibirskoe Otdelenie, Institut Kriosfery Zemli, Tyumen, Russian Federation) and Minkin, M. A.

O strategii razrabotki elektronnykh geoinformatsionnykh sistem i baz dannykh v geokriologii [Strategy of development of electronic geoinformation systems and databases in geocryology]: **Kriosfera Zemli**, 2(3), p. 70-76 (English sum.), illus. incl. sketch map, 13 ref., September 1998.

56005443

Minkin, M. A. (Gosudarstvennyy Proektno-Izyskateль'skii Institut "Fundamentproekt", Moscow, Russian Federation); Aleksandrov, A. A.; Krutikova, V. A.; Marov, E. A. and Shatalov, A. Iu.

Opyt razrabotki i ispol'zovaniia baz geokriologicheskikh dannykh v sistemakh avtomatizirovannogo proektirovaniia [Experience of elaboration and application of geocryological database in computerized design systems]: **Kriosfera Zemli**, 2(3), p. 77-82 (English sum.), illus. incl. table, sect., 8 ref., September 1998.

56005444

Komarov, I. A. (Moskovskii Gosudarstvennyy Universitet, Geologicheskii Fakul'tet, Moscow, Russian Federation) and Kholodov, A. L.

Lokal'nye bazy dannykh geokriologicheskoi, geoekologicheskoi i inzhenerno-geologicheskoi informatsii TMON [Local databases of geocryological, geoecological and engineering-geological information TMON]: **Kriosfera Zemli**, 2(3), p. 83-86 (English sum.), illus., 9 ref., September 1998.

56005445

Morison, J. and Rigor, I.

Observations of ice motion in the marginal Siberian seas: 5 p., September 1996. Available from: National Technical Information Service, (703)605-6000, order number AD-A322 448/2NEG, Springfield, VA, United States. (Contract N00014-93-1-1281). Final report.

56005446

Olsen, Hans Kristian (Bureau of Minerals & Petroleum, Nuuk, Greenland); Lorentzen, Lida and Rendal, Ole, editors.

Mining in the Arctic: **Proceedings of the International Symposium on Mining in the Arctic**, 6, 174 p., illus., 2001. ISBN: 90-5809-177-5. Meeting: May 28-31, 2001, Nuuk, Greenland. Individual papers are cited separately.

56005447

Aastrup, Peter (National Environmental Research Institute, Department of Arctic Environment, Denmark) and Glaahder, C. M.

Environment regulation of mineral exploration in Greenland: in Mining in the Arctic (Olsen, Hans Kristian, editor; *et al.*), **Proceedings of the International Symposium on Mining in the Arctic**, 6, p. 3-9, illus., 19 ref., 2001. Meeting: May 28-31, 2001, Nuuk, Greenland.

56005448

Elberling, B. (University of Copenhagen, Institute of Geography, Copenhagen, Denmark); Asmund, Gert; Balic-Zunic, T.; Rohwerder, T. and Sand, W.

Reactivity of covered sulfidic waste near Maarorilik in West Greenland: in Mining in the Arctic (Olsen, Hans Kristian, editor; *et al.*), **Proceedings of the International Symposium on Mining in the Arctic**, 6, p. 11-16, illus. incl. 1 table, 14 ref., 2001. Meeting: May 28-31, 2001, Nuuk, Greenland.

56005449

Norman, Chris (West Lothian Council, Development Co-Ordination, Lothian, United Kingdom).

Mining in environmentally sensitive areas; the decision maker's dilemma: *in Mining in the Arctic* (Olsen, Hans Kristian, editor; *et al.*), **Proceedings of the International Symposium on Mining in the Arctic**, 6, p. 17-24, 9 ref., 2001. *Meeting*: May 28-31, 2001, Nuuk, Greenland.

56005450

Aastrup, Peter (National Environmental Research Institute, Department of Arctic Environment, Roskilde, Denmark); Tamstorf, Mikkel P. and Tukiainen, Tapani.

MINEO; use of hyperspectral data for monitoring pollution from the lead-zinc mine, Mestersvig, in Northeast Greenland: *in Mining in the Arctic* (Olsen, Hans Kristian, editor; *et al.*), **Proceedings of the International Symposium on Mining in the Arctic**, 6, p. 25-28, illus., 2 ref., 2001. *Meeting*: May 28-31, 2001, Nuuk, Greenland.

56005451

Johansen, Poul (National Environmental Research Institute, Department of Arctic Environment, Roskilde, Denmark) and Asmund, Gert.

Pollution from mining in Greenland; a review: *in Mining in the Arctic* (Olsen, Hans Kristian, editor; *et al.*), **Proceedings of the International Symposium on Mining in the Arctic**, 6, p. 29-35, illus. incl. sketch maps, 22 ref., 2001. *Meeting*: May 28-31, 2001, Nuuk, Greenland.

56005452

Elberling, B. (University of Copenhagen, Institute of Geography, Copenhagen, Denmark).

Control strategies for acid mine drainage in Arctic regions: *in Mining in the Arctic* (Olsen, Hans Kristian, editor; *et al.*), **Proceedings of the International Symposium on Mining in the Arctic**, 6, p. 37-48, illus., 47 ref., 2001. *Meeting*: May 28-31, 2001, Nuuk, Greenland.

56005453

Andersen, Erik O. (Platinova A/S, Toronto, ON, Canada).

Mining concept for the Citronen Fjord zinc deposit, NE Greenland: *in Mining in the Arctic* (Olsen, Hans Kristian, editor; *et al.*), **Proceedings of the International Symposium on Mining in the Arctic**, 6, p. 51-60, illus. incl. sect., 3 tables, sketch map, 8 ref., 2001. *Meeting*: May 28-31, 2001, Nuuk, Greenland.

56005454

Hermansen, R. (Store Norske, Longyearbyen, Svalbard and Jan Mayen Islands).

Production to begin in 2001 at Svea North, Svalbard: *in Mining in the Arctic* (Olsen, Hans Kristian, editor; *et al.*), **Proceedings of the International Symposium on Mining in the Arctic**, 6, p. 61-64, illus. incl. 3 tables, 2001. *Meeting*: May 28-31, 2001, Nuuk, Greenland.

56005455

Jensen, S. M. (Geological Survey of Denmark and Greenland, Ministry of Environment and Energy, Department of Economic Geology, Copenhagen, Denmark) and Thorning, L.

Challenges to exploration in Greenland's high Arctic plains and plateaus: *in Mining in the Arctic* (Olsen, Hans Kristian, editor; *et al.*), **Proceedings of the International Symposium on Mining in the Arctic**, 6, p. 65-70, illus. incl. geol. sketch map, 16 ref., 2001. *Meeting*: May 28-31, 2001, Nuuk, Greenland.

56005456

Sherlock, R. L. (Canada-Nunavut Geoscience Office, Iqaluit, NU, Canada); Alexander, R. B.; March, R.; Kellner, J. and Barclay, W. A.

Geologic setting of the Meadowbank iron formation-hosted gold deposits: *in Mining in the Arctic* (Olsen, Hans Kristian, editor; *et al.*), **Proceedings of the International Symposium on Mining in the Arctic**, 6, p. 71-79, illus. incl. 1 table, geol. sketch maps, 19 ref., 2001. *Meeting*: May 28-31, 2001, Nuuk, Greenland.

56005457

Lauer, R. W. (Department of Indian Affairs and Northern Development, Hull, PQ, Canada); Nutter, D. E. and Thompson, N. A.

Dealing with failure of Royal oak mines in the Northwest Territories: *in Mining in the Arctic* (Olsen, Hans Kristian, editor; *et al.*), **Proceedings of the International Symposium on Mining in the Arctic**, 6, p. 83-87, 5 ref., 2001. *Meeting*: May 28-31, 2001, Nuuk, Greenland.

56005458

Orheim, A. (GeoArktis, Longyearbyen, Norway) and Sorstrom, S. E.

Non-geological issues pertaining to prospect evaluations: *in Mining in the Arctic* (Olsen, Hans Kristian, editor; *et al.*), **Proceedings of the International Symposium on Mining in the Arctic**, 6, p. 89-94, illus., 3 ref., 2001. *Meeting*: May 28-31, 2001, Nuuk, Greenland.

56005459

Betournay, M. C. (Natural Resources Canada, Mining Laboratories, Ottawa, ON, Canada) and Udd, John E.

Decommissioning shallow mine workings in permafrost terrains: *in Mining in the Arctic* (Olsen, Hans Kristian, editor; *et al.*), **Proceedings of the International Symposium on Mining in the Arctic**, 6, p. 95-103, illus. incl. 1 table, block diag., 23 ref., 2001. *Meeting*: May 28-31, 2001, Nuuk, Greenland.

56005460

Bandopadhyay, Sukumar (University of Alaska at Fairbanks, Fairbanks, AK); Wu, H.; Nelson, Michael G. and Izaxon, V. U.

Analysis of thermal regime of a deep mine airway in permafrost: *in Mining in the Arctic* (Olsen, Hans Kristian, editor; *et al.*), **Proceedings of the International Symposium on Mining in the Arctic**, 6, p. 107-117, illus. incl. 4 tables, 3 ref., 2001. *Meeting*: May 28-31, 2001, Nuuk, Greenland.

56005461

Cassie, J. W. (BGC Engineering, Calgary, AB) and LeDrew, K. G.

Tailings deposition and dike construction at Nanisivik Mine, Nunavut: *in Mining in the Arctic* (Olsen, Hans Kristian, editor; *et al.*), **Proceedings of the International Symposium on Mining in the Arctic**, 6, p. 119-126, sect., sketch map, 12 ref., 2001. *Meeting*: May 28-31, 2001, Nuuk, Greenland.

56005462

Izaxon, V. U. (Russian Academy of Sciences, Siberian Branch, North Mining Institute, Yakutsk, Russian Federation).

Foundation of the tower head frame on the “Internationalny” diamond pit: *in Mining in the Arctic* (Olsen, Hans Kristian, editor; *et al.*), **Proceedings of the International Symposium on Mining in the Arctic**, 6, p. 127-130, illus., 2 ref., 2001. *Meeting*: May 28-31, 2001, Nuuk, Greenland.

56005463

Bandopadhyay, Sukumar (University of Alaska Fairbanks, School of Mineral Engineering, Fairbanks, AK); Wu, H.; Nelson, Michael G. and Izaxon, V. U.
Engineering control of mine thermal regime around a mine airway in permafrost: *in Mining in the Arctic* (Olsen, Hans Kristian, editor; *et al.*), **Proceedings of the International Symposium on Mining in the Arctic**, 6, p. 131-139, illus. incl. 3 tables, 4 ref., 2001. *Meeting:* May 28-31, 2001, Nuuk, Greenland.

56005464

Udd, John E. (Natural Resources Canada, Ottawa, ON, Canada) and Bétournay, M. C.
Ground control and mining in permafrost (including a bibliography): *in Mining in the Arctic* (Olsen, Hans Kristian, editor; *et al.*), **Proceedings of the International Symposium on Mining in the Arctic**, 6, p. 141-148, 2001. *Meeting:* May 28-31, 2001, Nuuk, Greenland.

56005465

Morken, P. O. (Store Norske, Longyearbyen, Svalbard and Jan Mayen Islands).
Access road across Hoganes Glacier to the new Svea Mine, Svalbard: *in Mining in the Arctic* (Olsen, Hans Kristian, editor; *et al.*), **Proceedings of the International Symposium on Mining in the Arctic**, 6, p. 149-152, illus., 2001. *Meeting:* May 28-31, 2001, Nuuk, Greenland.

56005466

Melnikov, Nicholai N. (Russian Academy of Sciences, Mining Institute, Apatity, Russian Federation); Krasnoselskiy, E. V. and Reshetnyak, S. P.
Waste disposal at the Apatit Mining Company's phosphate operations, Kola Peninsula, Russia: *in Mining in the Arctic* (Olsen, Hans Kristian, editor; *et al.*), **Proceedings of the International Symposium on Mining in the Arctic**, 6, p. 153-158, illus. incl. 2 tables, 2001. *Meeting:* May 28-31, 2001, Nuuk, Greenland.

56005467

de Souza, E. (Queen's University, Department of Mining Engineering, Kingston, ON, Canada) and Dirige, A. P.
Centrifuge physical modelling of frozen backfill: *in Mining in the Arctic* (Olsen, Hans Kristian, editor; *et al.*), **Proceedings of the International Symposium on Mining in the Arctic**, 6, p. 159-166, illus. incl. 3 tables, 7 ref., 2001. *Meeting:* May 28-31, 2001, Nuuk, Greenland.

56005468

Lecuyer, N. L. (Nanisivik Mine, Breakwater Resources, Technical Services, Nanisivik, NU, Canada).
Ground control monitoring at the Nanisivik Mine: *in Mining in the Arctic* (Olsen, Hans Kristian, editor; *et al.*), **Proceedings of the International Symposium on Mining in the Arctic**, 6, p. 167-174, illus. incl. sect., sketch maps, 7 ref., 2001. *Meeting:* May 28-31, 2001, Nuuk, Greenland.

56005532

Moran, Mark L.
Imaging and modeling of ground penetrating radar array data with application to the Gulkana Glacier, AK: 127 p., illus., Doctoral, 2001, Pennsylvania State University, University Park, PA. microfiche *Available from:* University Microfilms, Ann Arbor, MI, United States.

56005534

Schuster, Corinne Joanne.

Weathering crust processes on melting glacier ice: 134 p., illus. incl. 14 tables, sketch map, 46 ref., Doctoral, 2001, Wilfrid Laurier University, Waterloo, ON, Canada. ISBN: 0-612-60795-X microfiche *Available from:* University Microfilms, Ann Arbor, MI, United States. Includes appendices.

56005535

Hamilton, George Wesley, Jr.

Environmental factors affecting creeping bentgrass and annual bluegrass tolerance to ice coverage: 86 p., illus. incl. 13 tables, 77 ref., Doctoral, December 2001, Pennsylvania State University, University Park, PA. microfiche *Available from:* University Microfilms, Ann Arbor, MI, United States.

56005536

Loya, Wendy Marie.

Carbon cycling and storage in Arctic tundra ecosystems: 111 p., illus. incl. 6 tables, Doctoral, 2001, Kansas State University, Manhattan, KS. microfiche *Available from:* University Microfilms, Ann Arbor, MI, United States.

56005540

Morin, Isabelle.

Predicting the ice clearing capacity of Lac St-Pierre: 103 p., illus. incl. 6 tables, 43 ref., Master's, December 1999, University of Ottawa, Ottawa, ON. ISBN: 0-612-58488-7 microfiche *Available from:* University Microfilms, Ann Arbor, MI, United States. Includes appendix.

56005541

Oertling, Annette Bergeron.

Small scale processes in sea ice modeling: 94 p., illus. incl. 3 tables, 38 ref., Doctoral, 2001, Tulane University, New Orleans, LA. microfiche *Available from:* University Microfilms, Ann Arbor, MI, United States. Includes appendix.

56005542

Cassady, Joslyn Diana.

A tundra of sickness; cancer, radiation, and contagion among Alaskan Inupiat: 246 p., 460 ref., Doctoral, 2001, University of Wisconsin at Madison, Madison, WI. microfiche *Available from:* University Microfilms, Ann Arbor, MI, United States. Includes appendix.

56005543

Dubowski, Yael.

Photochemical transformations in ice; implications for the fate of chemical species: variously paginated, illus. incl. 2 tables, Doctoral, 2001, California Institute of Technology, Pasadena, CA. microfiche *Available from:* University Microfilms, Ann Arbor, MI, United States.

56005598

Marble, D. C.

Simulated annual and seasonal Arctic Ocean and sea-ice variability from a high resolution, coupled ice-ocean model: 208 p., September 2001. *Available from:* National Technical Information Service, (703)487-4650, order number ADA397317NEG, Springfield, VA, United States.

56005599

Barrett, M. L. and Pigman, J. G.

Evaluation of automated bridge deck anti-icing system; Kentucky highway investigative task No. 36: Rep. No. KTC-01-26, 32 p., December 10, 2001. *Available from:* National Technical Information Service, (703)487-4650, order number PB2002-102168NEG, Springfield, VA, United States. Research report.

56005600

Koskinen, J.; Pulliainen, J. and Hallikainen, M.

Effect of snow wetness to C-band backscatter; a modeling approach: 28 p., December 10, 2000. ISBN: 951-22-5303-8 *Available from:* National Technical Information Service, (703)487-4650, order number PB2002-102730NEG, Springfield, VA, United States. Also publ. as Helsinki Univ. of Technology, Lab. of Space Technology, Rep. No. Rept 41.

56005601

Cavalieri, D. J.; Markus, T. and Ivanoff, A.

Comparison of DMSP SSM/I and Landsat 7 ETM+ sea ice concentrations during summer melt: 22 p., 2001. *Available from:* National Technical Information Service, (703)487-4650, order number N20010124072NEG, Springfield, VA, United States.

56005602

Markus, T.; Cavalieri, D. J. and Ivanoff, A.

Potential of using Landsat 7 data for the classification of sea ice surface conditions during summer: 19 p., 2001. *Available from:* National Technical Information Service, (703)487-4650, order number N20010124074NEG, Springfield, VA, United States.

56005603

Holland, D. M.; Jenkins, A. and Jacobs, S. S.

Modeling South Pacific ice-ocean interactions in the global climate system: 118 p., 2001. *Available from:* National Technical Information Service, (703)487-4650, order number N20020004188NEG, Springfield, VA, United States. (Grant NAG5-4028; Project LDEO CONTRIB. 6034). Final Report, March 1, 1997 - Feb. 28, 2001.

56005604

Fagan, Brian.

The Little Ice Age; how climate made history, 1300-1850: Basic Books, New York, NY, 246 p., illus., 2000. ISBN: 0-465-02271-5.

56005605

Mel'nikov, V. P. (Rossiiskaia Akademiia Nauk, Sibirskoe Otdelenie, Institut Kriosfery Zemli, Tyumen, Russian Federation); Smul'skii, I. I.; Krotov, O. I. and Smul'skii, L. I.
Orbiti Zemli i Solntsa i vozmozhnye vozdeistviia na kriosferu Zemli (postanovka problemy i pervye rezul'taty) [Orbits of the Earth and Sun and possible effects on the Earth's cryosphere; statement of a problem and first results]: **Kriosfera Zemli**, 4(3), p. 3-13 (English sum.), illus. incl. table, 9 ref., September 2000.

56005606

Fotiev, S. M. (Rossiiskaia Akademii Nauk, Sibirskoe Otdelenie, Institut Kriosfery Zemli, Tyumen, Russian Federation).

Vozmozhnye izmenenia geotemperaturnogo polya kriogennoi oblasti Rossii pri global'nom poteplenii klimata [Possible changes in the geotemperature field of the Russian cryogenic area under climate global warming]: **Kriosfera Zemli**, 4(3), p. 14-29 (English sum.), illus. incl. 5 tables, sketch map, 21 ref., September 2000.

56005607

Ostroumov, V. E. (Rossiiskaia Akademii Nauk, Institut Fundamental'nykh Problem Biologii, Pushchino, Russian Federation).

Temperaturnaia zavisimost' dielektricheskoi pronaemosti i raspredelenie ionov v merzloj suglinke [Temperature dependence of dielectric constant and distribution of ions in frozen loam]: **Kriosfera Zemli**, 4(3), p. 30-34 (English sum.), illus., 9 ref., September 2000.

56005608

Khrustalev, L. N. (Moskovskii Gosudarstvenny Universitet, Geologicheskii Fakul'tet, Moscow, Russian Federation); Medvedev, A. V. and Pustovoit, G. P.

Mnogoletnee izmenenie temperatury vozdukha i ustoichivost' proektiruemikh v kriolitozone sooruzhenii [Long-term air temperature change and stability of designed structures in permafrost zone]: **Kriosfera Zemli**, 4(3), p. 35-41 (English sum.), illus. incl. 4 tables, 13 ref., September 2000.

56005609

Grechishchev, S. E. (Rossiiskaia Akademii Nauk, Sibirskoe Otdelenie, Institut Kriosfery Zemli, Moscow, Russian Federation); Kazarnovskii, V. D.; Kretov, V. A. and Grechishcheva, O. V.

Modelirovaniye termokontraktionsionnogo vzaimodeistviia merzlykh gruntov nasypei i dorozhnykh odezhd avtomobil'nykh dorog v kriolitozone [Modeling of thermocontraction interaction of frozen soils of embankments and highway pavements in permafrost area]: **Kriosfera Zemli**, 4(3), p. 49-58 (English sum.), illus. incl. 5 tables, 25 ref., September 2000.

56005610

Gilichinskii, D. A. (Rossiiskaia Akademii Nauk, Institut Fiziko-Khimicheskikh i Biologicheskikh Problem Pochvovedeniia, Pushchino, Russian Federation); Bykhovets, S. S.; Sorokovikov, V. A.; Fedorov-Davydov, D. G.; Barri, R. G.; Zhang, T.; Gavrilova, M. K. and Alekseeva, O. I.

Ispol'zovanie dannykh meteorologicheskikh stantsii dlya otsenki tendentsii mnogoletnikh izmenenii temperatury pochv na territorii sezonnii i mnogoletnei kriolitozony Rossii [Use of hydrometeorological survey data for 100-year history of soil temperature trends in the seasonally frozen and permafrost areas of Russia]: **Kriosfera Zemli**, 4(3), p. 59-66 (English sum.), illus. incl. 2 tables, 20 ref., September 2000.

56005611

Rogov, V. V. (Moskovskii Gosudarstvenny Universitet, Geograficheskii Fakul'tet, Moscow, Russian Federation).

Osobennosti morfologii chashts skeleta kriogenного eluviuma [Features of morphology of particles of a cryogenic eluvium skeleton]: **Kriosfera Zemli**, 4(3), p. 67-73 (English sum.), illus. incl. 6 plates, 17 ref., September 2000.

56005612

Grechishchev, S. E. (Rossiiskaia Akademii Nauk, Sibirskoe Otdelenie, Institut Kriosfery Zemli, Tyumen, Russian Federation); Kazarnovskii, V. D.; Kretov, V. A.; Aksenov, V. I. and Sheshin, Iu. B.

Termoreologicheskie i kontraktionnye svoistva merzlokomkovatykh gruntov [Thermorheological and contractional properties of cloddy frozen soils]: **Kriosfera Zemli**, 4(3), p. 74-78 (English sum.), illus., 11 ref., September 2000.

56005613

Shpolyanskaia, N. A. (Moskovskii Gosudarstvennyy Universitet, Geograficheskii Fakul'tet, Kafedra Kriolitologii i Glyatsiologii, Moscow, Russian Federation).

Klimaticheskie ritmy i dinamika kriolitozony (analiz ehvolyutsii v proshlom i prognoz izmenenii v budushchem) [Climatic cycles and dynamics of the cryolithozone; analysis of the evolution in the past and prediction of changes in the future]: **Kriosfera Zemli**, 5(1), p. 3-14 (English sum.), illus. incl. 2 tables, 35 ref., March 2001.

56005614

Vasil'chuk, Iu. K. (Moskovskii Gosudarstvennyy Universitet, Geograficheskii i Geologicheskii Fakul'tety, Moscow, Russian Federation); Vasil'chuk, A. K.; Sulerzhitskii, L. D.; Budantseva, N. A.; Kuchera, V.; Rank, D. and Chizhova, Iu. N.

Vozrast, izotopnyy sostav i osobennosti formirovania pozdnepleistotsenovykh sinkriogenennykh povtorno-zhil'nykh l'dov Duvannogo Iara [Age, isotope composition, and formation features of the upper Pleistocene syngenetic ice-wedges of Duvanny Iar]: **Kriosfera Zemli**, 5(1), p. 24-36 (English sum.), illus. incl. 4 tables, sects., 12 ref., March 2001.

56005615

Zabolotnik, P. S. (Rossiiskaia Akademii Nauk, Sibirskoe Otdelenie, Institut Merzlovedeniia, Iakutsk, Russian Federation).

Sezonnoe protaivanie gruntov Khannya-Nakynskogo mezhdurech'ia (Zapadnaia Iakutiia) [Seasonal thawing of soils in the Hannya-Nakyn interfluve, western Iakutia]: **Kriosfera Zemli**, 5(1), p. 37-43 (English sum.), illus. incl. table, 22 ref., March 2001.

56005616

Vasil'ev, A. A. (Rossiiskaia Akademii Nauk, Sibirskoe Otdelenie, Institut Kriosfery Zemli, Tyumen, Russian Federation); Pokrovskii, S. I. and Shur, Iu. L.

Dinamika termoabrazionnykh beregov Zapadnogo Iamala [Dynamics of the coastal thermoerosion of western Iamal]: **Kriosfera Zemli**, 5(1), p. 44-52 (English sum.), illus. incl. 2 tables, sketch map, 25 ref., March 2001.

56005617

Razumov, S. O. (Rossiiskaia Akademii Nauk, Sibirskoe Otdelenie, Institut Merzlovedeniia im. P.I. Mel'nikova, Iakutsk, Russian Federation).

Modelirovanie erozii beregov arkticheskikh morei v menyaiushchikhsya klimaticheskikh usloviakh [Modeling of erosion of shores of the Arctic seas in varying climatic conditions]: **Kriosfera Zemli**, 5(1), p. 53-60 (English sum.), illus. incl. 2 tables, 20 ref., March 2001.

56005618

Mel'nikov, V. P. (Rossiiskaia Akademii Nauk, Sibirskoe Otdelenie, Institut Kriosfery Zemli, Tyumen, Russian Federation) and Nesterov, A. N.

Gidratoobrazovanie gazov iz porovoi mineralizovannoj vlagi [Gas hydrate formation from pore mineralized water]: **Kriosfera Zemli**, 5(1), p. 61-67 (English sum.), illus. incl. 2 tables, 16 ref., March 2001.

56005619

Anikin, G. V. (Rossiiskaia Akademii Nauk, Sibirskoe Otdelenie, Institut Kriosfery Zemli, Tyumen, Russian Federation); Plotnikov, S. N. and Shavlov, A. V.

Vliianie postoiannogo odnorodnogo elektricheskogo polya na obrazovanie zarodyshei l'da [The influence of constant homogeneous electric field upon ice germ formation]: **Kriosfera Zemli**, 5(1), p. 68-70 (English sum.), table, 8 ref., March 2001.

56005620

Moskalenko, N. G. (Rossiiskaia Akademii Nauk, Sibirskoe Otdelenie, Institut Kriosfery Zemli, Tyumen, Russian Federation); Korostelev, Iu. V. and Chervova, E. I.

Monitoring sloia sezonnogo protaivaniia v severnoi taige Zapadnoi Sibiri [Monitoring of active layer in northern taiga of West Siberia]: **Kriosfera Zemli**, 5(1), p. 71-79 (English sum.), illus. incl. 2 tables, sketch map, 13 ref., March 2001.

56005621

Chuprynin, V. I. (Rossiiskaia Akademii Nauk, Dal'nevostochnoe Otdelenie, Tikhookeanskii Institut Geografii, Vladivostok, Russian Federation); Zimov, S. A. and Molchanova, L. A.

Modelirovaniye tematicheskogo rezhima pochvogruntov s uchetom biologicheskogo istochnika tepla [Modeling of thermal conditions of soil-and-grounds subject to the biological heat source]: **Kriosfera Zemli**, 5(1), p. 80-87 (English sum.), illus., 13 ref., March 2001.

56005622

Kitaev, L. M. (Rossiiskaia Akademii Nauk, Institut Geografii, Moscow, Russian Federation) and Vegener, T. N.

Vzaimodeistvie prostranstvennoi struktury parametrov snezhnogo pokrova i vesennego polovod'ja Sibiri [Interaction of the spatial structure of snow cover and spring river flood in Siberia]: **Kriosfera Zemli**, 5(1), p. 88-92 (English sum.), illus. incl. 2 tables, sketch maps, 4 ref., March 2001.

56005623

Nikolaev, V. I. (Rossiiskaia Akademii Nauk, Institut Geografii, Moscow, Russian Federation) and Fedorov, V. M.

Ehkspeditsiia "Millennium" k Iuzhnому polusu (izotopno-kislorodnye issledovaniia poverkhnostnogo snega Antarktidy) [Expedition "Millennium" to South Pole; oxygen isotope investigation of Antarctic snow cover]: **Kriosfera Zemli**, 5(1), p. 93-99 (English sum.), illus. incl. 2 tables, 38 ref., March 2001.

56005624

Gavrilov, A. V. (Moskovskii Gosudarstvennyy Universitet, Geologicheskii Fakul'tet, Moscow, Russian Federation) and Tumskoi, V. E.

Evolvutsiiia temperatury porod primorskikh nizmennostei Iakutii v srednem i pozdnem pleistotsene [The evolution of the mean annual ground temperature on coastal lowlands of Iakutia in middle and late Pleistocene]: **Kriosfera Zemli**, 5(3), p. 3-16 (English sum.), illus. incl. 1 table, 53 ref., September 2001.

56005625

Leibman, M. O. (Rossiiskaia Akademiiia Nauk, Sibirskoe Otdelenie, Institut Kriosfery Zemli, Tyumen, Russian Federation).

Dinamika sloia sezonnogo otaivaniia porod i metodika izmerenii ego glubiny v razlichnykh landshaftakh Tsentral'nogo Iamala [Active-layer dynamics and measurement technique at various landscapes of central Iamal]: **Kriosfera Zemli**, 5(3), p. 17-24 (English sum.), illus. incl. 4 tables, 8 ref., September 2001.

56005626

Ershov, E. D. (Moskovskii Gosudarstvennyy Universitet, Geologicheskii Fakul'tet, Moscow, Russian Federation); Levantovskaia, N. P.; Maksimova, L. N. and Medvedev, A. V.

Geokriologicheskie rekonstruktii dlya vpadin iuzhnoi chasti Penzhino-Anadyrskogo progiba [Geocryological reconstruction for intermontane areas of southern part of Pengino-Anadyr Trough]: **Kriosfera Zemli**, 5(3), p. 25-32 (English sum.), illus. incl. 2 tables, sketch map, 20 ref., September 2001.

56005627

Kotov, A. N. (Rossiiskaia Akademiiia Nauk, Dal'nevostochnoe Otdelenie, Severo-Vostochnyy Kompleksnyy Nauchno-Issledovatel'skii Institut, Chukotskii Filial, Anadyr, Russian Federation); Anderson, P. M. and Lozhkin, A. V.

Izmenenie skorosti osadkonakopleniia v dolgozhivushchikh ozyerakh pri fluktuatsiakh klimata i ustochivost' tundraovykh kriolitosistem Beringii [Change of the rates of sedimentation in long-living lakes in the time of climate fluctuations and stability of tundra cryolithosystems of Beringia]: **Kriosfera Zemli**, 5(3), p. 33-39 (English sum.), illus. incl. 6 tables, sketch map, 8 ref., September 2001.

56005628

Dmitrenko, I. A. (Gosudarstvennyy Nauchnyy Tsentr Rossiiskoi Federatsii, Arkticheskii i Antarkticheskii Nauchno-Issledovatel'skii Institut, Saint Petersburg, Russian Federation); Khyulemann, Y. A.; Kirillov, S. A.; Vegner, K.; Gribanov, V. A.; Berezovskaia, S. L. and Kassens, Kh.

Termicheskii rezhim pridonnogo sloia morya Laptevykh i protsessy, ego opredelyaiushchie [Thermal regime of the Laptev Sea bottom layer and affecting processes]: **Kriosfera Zemli**, 5(3), p. 40-55 (English sum.), illus. incl. sect., sketch maps, 39 ref., September 2001.

56005629

Skryabin, P. N. (Rossiiskaia Akademiiia Nauk, Sibirskoe Otdelenie, Institut Merzlotovedeniia im. P.I. Mel'nikova, Iakutsk, Russian Federation).

Razvitie nablyudatel'noi seti termicheskogo monitoringa kriolitozony v Tsentral'noi Iakutii [Development of a permafrost thermal monitoring in central Iakutia]: **Kriosfera Zemli**, 5(3), p. 56-62 (English sum.), 2 tables, sketch map, 47 ref., September 2001.

56005630

Chudinova, S. M. (Rossiiskaia Akademii Nauk, Institut Fiziko-Khimicheskikh i Biologicheskikh Problem Pochvovedeniia, Pushchino, Russian Federation); Bykhovets, S. S.; Fedorov-Davydov, D. G.; Sorokovikov, V. A.; Gubanov, V. S.; Barri, R. G. and Gilichinskii, D. A.

Reaktsiia temperaturnogo rezhima pochv Russkogo Severa na izmeneniiia klimata vo vtoroi polovine XX veka [Response of temperature regime of Russian North to climate changes during the second half of the 20th century]: **Kriosfera Zemli**, 5(3), p. 63-69 (English sum.), illus. incl. 2 tables, sketch map, 17 ref., September 2001.

56005631

Golubev, V. N. (Moskovskii Gosudarstvennyy Universitet, Geograficheskii Fakul'tet, Moscow, Russian Federation); Konishchev, V. N.; Sokratov, S. A. and Grebennikov, P. B.

Vliianie sublimatsii sezonnogo snezhnogo pokrova na formirovanie izotopnogo sostava povtorno-zhil'nykh l'dov [Influence of sublimation in a seasonal snow cover on formation of an isotopic content of wedge ice]: **Kriosfera Zemli**, 5(3), p. 71-76 (English sum.), illus. incl. 1 table, 22 ref., September 2001.

56005632

Baulin, V. V. (Gosstroj Rossi, Proizvodstvennyy i Nauchno-Issledovatel'skii Institut po Inzhenernym Izyskaniiam, Moscow, Russian Federation); Ershov, E. D.; Kamenskii, R. M.; Konishchev, V. N.; Mel'nikov, V. P. and Pavlov, A. V.

Geokriologiia v Rossii: dostizheniiia i problemy [Geocryology in Russia; achievements and problems]: **Kriosfera Zemli**, 5(4), p. 3-14 (English sum.), illus. incl. 2 tables, December 2001.

56005633

Kargapolov, V. D. (Severnyy Mezhdunarodnyy Universitet, Magadan, Russian Federation).

Vliianie rastitel'nosti na usloviia obrazovaniia mnogoletnemerzlykh porod na poberezh'e Okhotskogo morya [Influence of vegetation on formation of permafrost on Ochotsk coast]:

Kriosfera Zemli, 5(4), p. 22-29 (English sum.), illus. incl. sketch map, 10 ref., December 2001.

56005634

Solomonov, N. G. (Rossiiskaia Akademii Nauk, Sibirskoe Otdelenie, Institut Biologicheskikh Problem Kriolitozony, Iakutsk, Russian Federation); Desyatkin, R. V.; Larionov, V. P.; Ivanov, B. I.; Isaev, A. P. and Borisov, Z. Z.

Ekologicheskie problemy osvoeniia neftegazovykh resursov v Iakutii [Ecological problems of oil and gas fields development in Iakutia]: **Kriosfera Zemli**, 5(4), p. 30-35 (English sum.), 16 ref., December 2001.

56005635

Anikin, G. V. (Rossiiskaia Akademii Nauk, Sibirskoe Otdelenie, Institut Kriosfery Zemli, Tyumen, Russian Federation); Plotnikov, S. N. and Shavlov, A. V.

Vliianie postoiannogo odnorodnogo elektricheskogo polya na formu zarodyshei l'da [Influence of permanent homogeneous electrical field on ice crystals shape]: **Kriosfera Zemli**, 5(4), p. 36-37 (English sum.), 6 ref., December 2001.

56005636

Vtyurin, G. M. (Rossiiskaia Akademiiia Nauk, Ural'skoe Otdelenie, Komi Nauchnyy Tsentr, Institut Biologii, Syktyvkar, Russian Federation) and Lodygin, E. D.

Paleokriogennye poligonal'no-zhil'nye struktury v pochvennom pokrove srednei taigi severo-vostoka Evropy [Paleocryogenic polygonal-wedge structures in soil cover of central taiga of northeastern Europe]: **Kriosfera Zemli**, 5(4), p. 38-49 (English sum.), illus. incl. 4 tables, sketch maps, 33 ref., December 2001.

56005637

Razumov, S. O. (Rossiiskaia Akademiiia Nauk, Sibirskoe Otdelenie, Institut Merzlotovedeniia im. P.I. Mel'nikova, Iakutsk, Russian Federation).

Modelirovanie termoabrazii l'distykh beregov arkticheskikh morei v statsionarnykh klimaticheskikh usloviakh [Thermoerosion modelling of ice-rich Arctic coast in stationary climatic conditions]: **Kriosfera Zemli**, 5(4), p. 50-58 (English sum.), illus. incl. table, 9 ref., December 2001.

56005638

Romanovskii, V. E. (University of Alaska, Geophysical Institute, Fairbanks) and Osterkamp, T. E.

Sistema merzlotnogo monitoringa na Alyaske; struktura i rezul'taty [Permafrost monitoring system in Alaska; structure and results]: **Kriosfera Zemli**, 5(4), p. 59-68 (English sum.), illus. incl. sketch map, 28 ref., December 2001.

56005639

Drozdov, D. S. (Rossiiskaia Akademiiia Nauk, Sibirskoe Otdelenie, Institut Kriosfery Zemli, Tyumen, Russian Federation); Mel'nikov, E. S. and Chekrygina, S. N.

Prirodnye i tekhnogenennye geokriosistemy rayona Noril'ska i geokriologicheskaiia karta territorii [Natural and technogenic geocryosystems of Norilsk area and the geocryological map of this territory]: **Kriosfera Zemli**, 5(4), p. 69-78 (English sum.), 3 tables, sketch maps, 7 ref., December 2001.

56005640

Pit', V. I. (Rossiiskaia Akademiiia Nauk, Sibirskoe Otdelenie, Institut Kriosfery Zemli, Tyumen, Russian Federation) and Feklistov, V. N.

Teplovlahzhnostnye ispytaniia konstruktsii teploprovodov, prolozhennykh v myerzlykh i obvodnennykh gruntakh [Heat-humidity testing of pipeline construction in frozen and flooded grounds]: **Kriosfera Zemli**, 5(4), p. 79-83 (English sum.), illus., 4 ref., December 2001.

56005641

Kitaev, L. M. (Rossiiskaia Akademiiia Nauk, Institut Geografii, Moscow, Russian Federation); Razuvaev, V. N. and Martuganov, R. A.

Prostranstvennye osobennosti mezgodovykh izmenenii vzaimodeistviia polei parametrov klimata i snezhnogo pokrova severa Evrazii [Spatial peculiarities of annual changes in climatic and snow cover parameters of northern Eurasia]: **Kriosfera Zemli**, 5(4), p. 84-91 (English sum.), illus. incl. 3 tables, sketch maps, 5 ref., December 2001.

56005642

Roman, L. T. (Moskovskii Gosudarstvennyy Universitet, Geologicheskii Fakul'tet, Moscow, Russian Federation).

Mekhanika merzlykh gruntov na poroge XXI veka; itogi, perspektivy, puti razvitiia [Permafrost mechanics on the threshold of the 21st century; summary, prospects, development trends]: **Kriosfera Zemli**, 6(1), p. 3-16 (English sum.), 171 ref., March 2002.

56005643

Konishchev, V. N. (Moskovskii Gosudarstvennyy Universitet, Geograficheskii Fakul'tet, Moscow, Russian Federation).

Paleotemperaturnye usloviia formirovania i deformatsii sloev ledovogo kompleksa [Paleotemperature conditions of formation and deformation of ice complex layers]: **Kriosfera Zemli**, 6(1), p. 17-24 (English sum.), illus. incl. table, 27 ref., March 2002.

56005644

Perl'shtein, G. Z. (Rossiiskaia Akademiia Nauk, Sibirskoe Otdelenie, Institut Merzlotovedeniia im. I. P. Mel'nikova, Severo-Vostochnaia Nauchno-Issledovatel'skaia Merzlotnaia Stantsiia, Magadan, Russian Federation).

Teploobmen deiatel'nogo sloia s atmosferoi; teoreticheskie i prikladnye aspekty [Heat exchange between active layer and atmosphere; theoretical and applied aspects]: **Kriosfera Zemli**, 6(1), p. 25-29 (English sum.), illus., 18 ref., March 2002.

56005645

Gavrilov, A. V. (Moskovskii Gosudarstvennyy Universitet, Geologicheskii Fakul'tet, Moscow, Russian Federation) and Tumskoi, V. E.

Sovremennye protsessy kriolitogeneza vostochnogo poberezh'ia morya Laptevykh [Modern cryolithogenesis processes in eastern shoreline of Laptev Sea]: **Kriosfera Zemli**, 6(1), p. 35-48 (English sum.), illus. incl. sketch maps, 45 ref., March 2002.

56005646

Mikhailov, V. M. (Rossiiskaia Akademiia Nauk, Sibirskoe Otdelenie, Institut Merzlotovedeniia im. P. I. Mel'nikova, Severo-Vostochnaia Nauchno-Issledovatel'skaia Merzlotnaia Stantsiia, Magadan, Russian Federation).

Kolichestvennye metody indikatsii poimennykh talikov; teoreticheskie predposylki [Quantitative methods of floodplain talik indication]: **Kriosfera Zemli**, 6(1), p. 49-55 (English sum.), 10 ref., March 2002.

56005647

Sukhodrovskii, V. L. (Rossiiskaia Akademiia Nauk, Institut Geografii, Moscow, Russian Federation).

O genezise ledovogo kompleksa i alasnogo rel'efa [Origin of ice complex and Alas Lake topography]: **Kriosfera Zemli**, 6(1), p. 56-61 (English sum.), illus., 17 ref., March 2002.

56005648

Alekseeva, O. I. (Rossiiskaia Akademiia Nauk, Sibirskoe Otdelenie, Institut Merzlotovedeniia im. P. I. Mel'nikova, Iakutsk, Russian Federation) and Balobaev, V. T.
Informatsionnye modeli kriosfery Zemli [Information models of Earth cryosphere]: **Kriosfera Zemli**, 6(1), p. 62-71 (English sum.), illus. incl. sketch map, 51 ref., March 2002.

56005649

Shavlov, A. V. (Rossiiskaia Akademii Nauk, Sibirskoe Otdelenie, Institut Kriosfery Zemli, Tyumen, Russian Federation).

Nelineinaia zadacha razdeleniiia zaryada na fronte kristallizatsii vody [Nonlinear problem of charge separation at water crystallization front]: **Kriosfera Zemli**, 6(1), p. 72-76 (English sum.), illus., 7 ref., March 2002.

56005650

Grechishchev, S. E. (Rossiiskaia Akademii Nauk, Sibirskoe Otdelenie, Institut Kriosfery Zemli, Tyumen, Russian Federation); Pavlov, A. V.; Sheshin, Iu. B. and Grechishcheva, O. V.

Laboratornye issledovaniia fizicheskikh svoistv segregatsionnogo vnutrigruntovogo l'da [Experimental studies of segregational ice physical properties]: **Kriosfera Zemli**, 6(1), p. 77-81 (English sum.), illus. incl. table, 4 ref., March 2002.

56005651

Duchkov, A. D. (Rossiiskaia Akademii Nauk, Sibirskoe Otdelenie, Institut Geofiziki, Novosibirsk, Russian Federation) and Pollak, G. N.

Vekovye trendy izmeneniiia klimata v istoricheskoe vremya po termogrammam skvazhin [Secular climate change trends in historical time, reconstructed from borehole temperature]: **Kriosfera Zemli**, 6(1), p. 82-89 (English sum.), illus. incl. table, 20 ref., March 2002.

56005652

Vasil'chuk, A. K. (Moskovskii Gosudarstvennyy Universitet, Moscow, Russian Federation).

Palinospektry C-14-datirovannykh obraztsov sinkriogenykh porod severa Zapadnoi Sibiri i Iakutii [Pollen and spores in C-14 dated samples of syncryogenic sediments of northern West Siberia and Iakutia]: **Kriosfera Zemli**, 6(2), p. 3-21 (English sum.), 6 tables, 24 ref., June 2002.

56005653

Chernyad'ev, V. P. (Gosstroi Rossii, Proizvodstvennyy i Nauchno-Issledovatel'skii Institut po Inzhenernym Izyskaniiam v Stroitel'stve, Moscow, Russian Federation) and Shamanova, I. I.

Podkhody i printsypy ekologo-geokriologicheskogo rayonirovaniia pri stroitel'nom osvoenii territorii rasprostraneniia mnogoletnemerzlykh porod [Approaches and principles of ecological-geocryological zoning of territories with permafrost during their construction development]: **Kriosfera Zemli**, 6(2), p. 29-35 (English sum.), 4 tables, sketch maps, 4 ref., June 2002.

56005654

Rivkin, F. M. (Proizvodstvennyy i Nauchno-Issledovatel'skii Institut po Inzhenernym Izyskaniiam v Stroitel'stve, Moscow, Russian Federation) and Levantovskaia, N. P.

Dinamika podruslovykh talikov i formirovanie gazovykh hidratov [Dynamics of river-channel taliks and formation of near-surface gas hydrate]: **Kriosfera Zemli**, 6(2), p. 36-42 (English sum.), illus. incl. 2 tables, sketch maps, 15 ref., June 2002.

56005655

Agafonov, L. I. (Rossiiskaia Akademiiia Nauk, Ural'skoe Otdelenie, Institut Ekologii Rastenii i Zhivotnykh, Ekaterinburg, Russian Federation); Shtrunk, Kh. B. and Nuber, T. O.

Dinamika termokarstovoi depressii v Zapadnoi Sibiri: opyt dendrogeomorfologicheskogo issledovaniia [Dynamics of thermokarst depression in West Siberia; experience of dendrogeomorphological study]: **Kriosfera Zemli**, 6(2), p. 43-52 (English sum.), illus. incl. table, sketch map, 18 ref., June 2002.

56005656

Snegirev, A. M. (Rossiiskaia Akademiiia Nauk, Sibirskoe Otdelenie, Vilyuiskaia Nauchno-Issledovatel'skaia Merzlotnaia Stantsiia, Chernyshevsky, Russian Federation) and Boikov, S. A.

Inzhenerno-geokriologicheskie problemy ekspluatatsii zdani i sooruzhenii g. Mirnyy [Engineering-geocryological problems of maintenance of buildings and construction in the town of Mirny]: **Kriosfera Zemli**, 6(2), p. 53-60 (English sum.), illus. incl. sketch maps, 6 ref., June 2002.

56005657

Alekseev, S. V. (Rossiiskaia Akademiiia Nauk, Sibirskoe Otdelenie, Institut Zemnoi Kory, Irkutsk, Russian Federation); Drozdov, A. V.; Drozdova, T. I. and Alekseeva, L. P.

Pervyy opyt zakhoroneniia solenykh drenazhnykh vod kar'era trubki Udachnaia v mnogoletnemerzlye porody [The first experience of burial of saline drainage waters of Udachnaia pipe quarry into permafrost]: **Kriosfera Zemli**, 6(2), p. 61-65 (English sum.), illus. incl. 4 tables, sketch map, 11 ref., June 2002.

56005658

Khrustalev, L. N. (Moskovskii Gosudarstvenny Universitet, Geologicheskii Fakul'tet, Moscow, Russian Federation); Garagulya, L. C.; Gordeeva, G. I.; Emel'ianova, L. V.; Kaurkin, V. D. and Chzhan, R. V.

Prognoz srednegodovoi temperatury vozdukha na territorii Respubliki Sakha (Iakutiia) po rezul'tatam retrospektivnogo analiza [Prediction of the annual mean air temperature on the territory of Sacha-Iakutia Republic according to results of retrospective analysis]: **Kriosfera Zemli**, 6(2), p. 66-74 (English sum.), illus. incl. 4 tables, sketch map, 17 ref., June 2002.

56005659

Pavlov, A. V. (Rossiiskaia Akademiiia Nauk, Sibirskoe Otdelenie, Institut Kriosfery Zemli, Tyumen, Russian Federation).

Vekovye anomalii temperatury vozdukha na severo Rossii [100-year anomalies of air temperature in northern Russia]: **Kriosfera Zemli**, 6(2), p. 75-81 (English sum.), illus. incl. 3 tables, 33 ref., June 2002.

56005660

Zakharov, V. G. (Rossiiskaia Akademiiia Nauk, Institut Geografii, Moscow, Russian Federation) and Kitaev, L. M.

Priznaki sushchestvovaniia dal'nikh svyazei mezhdu kolebaniami klimata, snegozapasov i lednikov v vysokikh shirotakh Severnogo i Iuzhnogo polusharii (Evroaziatskii sektor i poberezh'e Vostochnoi Antarktidy) [Signs of existence of long-range relationship between climate, snow and glaciers fluctuations in high latitudes of Northern and Southern hemispheres; Eurasian sector and the East Antarctic coasts]: **Kriosfera Zemli**, 6(2), p. 82-88 (English sum.), 21 ref., June 2002.

56005661

Oguchi, Takashi (University of Tokyo, Center for Spatial Information Science, Tokyo, Japan); Tanaka, Yukiya; Kim, Tae-Ho and Lin, Zhou.

Large-scale landforms and hillslope processes in Japan and Korea: *in Comparison of geomorphic processes on a stable landmass (Korea) and in a mobile belt (Japan)* (Chang, Ho, prefacer; *et al.*), **Chikei = Transactions - Japanese Geomorphological Union**, 22(3), p. 321-336, illus., 75 ref., July 2001. *Meeting:* Japan-Korea geomorphological conference, Aug. 17, 1999, Chonju, South Korea.

56005662

Oh, Kyong-Seob (Korea National University of Education, Choongbuk, South Korea) and Kee, Keun-Doh.

Genesis of granitic regolith and its deformation by morphogenetic processes in actual periglacial environment of middle latitude (Daegwallyong area in Taebaek Range, Korea): *in Comparison of geomorphic processes on a stable landmass (Korea) and in a mobile belt (Japan)* (Chang, Ho, prefacer; *et al.*), **Chikei = Transactions - Japanese Geomorphological Union**, 22(3), p. 337-349, illus., 36 ref., July 2001. *Meeting:* Japan-Korea geomorphological conference, Aug. 17, 1999, Chonju, South Korea.

56005663

Kwon, Dong-Hi (Dongguk University, Department of Geography, Seoul, South Korea).

Recent progress in Korean studies on granite landforms: *in Comparison of geomorphic processes on a stable landmass (Korea) and in a mobile belt (Japan)* (Chang, Ho, prefacer; *et al.*), **Chikei = Transactions - Japanese Geomorphological Union**, 22(3), p. 351-360, illus., 20 ref., July 2001. *Meeting:* Japan-Korea geomorphological conference, Aug. 17, 1999, Chonju, South Korea.

56005664

Hayba, D. O. (U. S. Geological Survey, Reston, VA); Houseknecht, David W. and Rowan, E. L.

Challenges in modeling the thermal evolution of a foreland arctic basin; the impact of uplift, erosion, overpressure, advection and permafrost on the eastern North Slope, Alaska [abstr.]: *in American Association of Petroleum Geologists 2001 annual meeting, Annual Meeting Expanded Abstracts - American Association of Petroleum Geologists*, 2001, p. 83, June 2001. *Meeting:* June 3-6, 2001, Denver, CO.

56005665

Brocklehurst, Simon H. (Massachusetts Institute of Technology, Department of Earth, Atmospheric and Planetary Sciences, Cambridge, MA) and Whipple, Kelin X.

Glacial erosion and relief production in the eastern Sierra Nevada, California: **Geomorphology**, 42(1-2), p. 1-24, illus. incl. 3 tables, geol. sketch maps, 62 ref., January 1, 2002.

56005666

Dahms, Dennis E. (University of Northern Iowa, Department of Geography, Cedar Falls, IA).

Glacial stratigraphy of Stough Creek basin, Wind River Range, Wyoming: **Geomorphology**, 42(1-2), p. 59-83, illus. incl. 4 tables, geol. sketch maps, 97 ref., January 1, 2002.

56005667

Smith, Derald G. (University of Calgary, Department of Geography, Calgary, AB, Canada) and Pearce, Cheryl M.

Ice jam-caused fluvial gullies and scour holes on northern river flood plains: **Geomorphology**, 42(1-2), p. 85-95, illus. incl. 1 table, geol. sketch map, 22 ref., January 1, 2002.

56005668

Zabarnick, Steven (University of Dayton Research Institute, Department of Mechanical and Aerospace Engineering, Dayton, OH) and Widmor, Nikki.

Studies of jet fuel freezing by differential scanning calorimetry: **Energy & Fuels**, 15(6), p. 1447-1453, illus. incl. 3 tables, 16 ref., December 2001.

56005669

van Franeker, Jan A. (Alterra-Texel, Marine and Coastal Zone Research, Texel, Netherlands); Creuwels, Jeroen C. S.; van der Veer, Willem; Cleland, Sam and Robertson, Graham.

Unexpected effects of climate change on the predation of Antarctic petrels: **Antarctic Science**, 13(4), p. 430-439, illus. incl. 1 table, sketch map, 33 ref., December 2001.

56005670

Hodgson, D. A. (British Antarctic Survey, Natural Environment Research Council, Cambridge, United Kingdom); Noon, P. E.; Vyverman, W.; Bryant, C. L.; Gore, D. B.; Appleby, P.; Gilmour, M.; Verleyen, E.; Sabbe, K.; Jones, V. J.; Ellis-Evans, J. C. and Wood, P. B.

Were the Larsemann Hills ice-free through the last glacial maximum?: **Antarctic Science**, 13(4), p. 440-454, illus. incl. 3 tables, sketch maps, 60 ref., December 2001.

56005671

McKelvey, B. C. (University of New England, Earth Sciences, Armidale, Australia); Hambrey, M. J.; Harwood, D. M.; Mabin, M. C. G.; Webb, P. N. and Whitehead, J. M.

The Pagodroma Group; a Cenozoic record of the East Antarctic ice sheet in the northern Prince Charles Mountains: **Antarctic Science**, 13(4), p. 455-468, illus. incl. sketch maps, strat. col., 67 ref., December 2001. *Cenozoic*

56005672

Rudoi, A. N.

Geologicheskaiia rabota chetvertichnykh glyatsial'nykh superpavodkov; formy dilyuvial'noi erozii i evorzii [Geology of Quaternary glacial superfloods; shapes of diluvial erosion and eversion]: **Izvestiia Russkogo Geograficheskogo Obshchestva**, 133(4), p. 31-40, illus. incl. table, 34 ref., August 2001.

56005673

Yoritaka, Miwako and Masuyama, Akihiro.

Oceanographic data of the 39th Japanese Antarctic research expedition from November 1997 to March 1998: **JARE Data Reports**, Rep. No. 258, 59 p., illus. incl. tables, sketch maps, October 2001.

56005674

Reasoner, Mel (MRI Coordination Office, Bern, Switzerland); Becker, Alfred; Bugmann, Harold; Graumlich, Lisa; Haeberli, Wilfried; Messerli, Bruno and Oldfield, Frank.
The Mountain Research Initiative and past global changes: **PAGES Newsletter**, 9(3), p. 4-6, illus., December 2001.

56005675

Tinner, Willy (Institut für Pflanzenwissenschaften der Universität Bern, Bern, Switzerland) and Ammann, Brigitta.
Timberline paleoecology in the Alps: **PAGES Newsletter**, 9(3), p. 9-11, illus., 4 ref., December 2001. *Holocene*

56005676

Wake, Cameron P. (University of New Hampshire, Climate Change Research Center, Durham, NH); Mayewski, Paul A.; Qin Dahe; Yang, Qinzao; Kang Sichang; Whitlow, Sallie and Meeker, L. David.

Changes in atmospheric circulation over the south-eastern Tibetan Plateau over the last two centuries from a Himalayan ice core: **PAGES Newsletter**, 9(3), p. 14-16, illus. incl. 2 tables, sketch map, 5 ref., December 2001.

56005677

Reimer, P. J. (Queen's University of Belfast, School of Archaeology and Palaeoecology, Belfast, United Kingdom); McCormac, F. G.; Moore, J.; McCormick, F. and Murray, E. V.
Marine radiocarbon reservoir corrections for the mid- to late Holocene in the eastern subpolar North Atlantic: **The Holocene**, 12(2), p. 129-135, illus. incl. 3 tables, sketch map, 33 ref., 2002.

56005678

Hui Jiang (East China Normal University, China); Seidenkrantz, Marit-Solveig; Knudsen, Karen Luise and Eiriksson, Jon.

Late-Holocene summer sea-surface temperatures based on a diatom record from the North Icelandic Shelf: **The Holocene**, 12(2), p. 137-147, illus. incl. 3 tables, sketch map, 58 ref., 2002.
Foraminifera, diatoms

56005679

Olafsdottir, Rannveig (Lund University, Department of Physical Geography, Lund, Sweden) and Gudmundsson, Hjalti J.

Holocene land degradation and climatic change in northeastern Iceland: **The Holocene**, 12(2), p. 159-167, illus. incl. strat. cols., 3 tables, sketch maps, 37 ref., 2002.

56005680

Moller, Jakob J. (University of Tromso, Geology Department, Tromso, Norway); Yevzerov, Vladimir Y.; Kolka, Vasili V. and Corner, Geoffrey D.

Holocene raised-beach ridges and sea-ice-pushed boulders on Kola Peninsula, Northwest Russia; indicators of climatic change: **The Holocene**, 12(2), p. 169-176, 53 ref., 2002.

56005681

Chapron, E. (Université de Lille I, Sédimentologie et Géodynamique, Lille, France); Desmet, M.; de Putter, T.; Loutre, M. F.; Beck, C. and Deconinck, J. F.

Climatic variability in the northwestern Alps, France, as evidenced by 600 years of terrigenous sedimentation in Lake Le Bourget: **The Holocene**, 12(2), p. 177-185, illus. incl. sketch map, 59 ref., 2002.

56005682

van Vliet-Lanoë, Brigitte (Université Sciences et Techniques de Lille, Sédimentologie et Géodynamique, Villeneuve d'Ascq, France) and Seppala, Matti.

Stratigraphy, age and formation of peaty earth hummocks (pounus), Finnish Lapland: **The Holocene**, 12(2), p. 187-199, 54 ref., 2002.

56005683

Seierstad, Jorun (University of Bergen, Department of Geography, Bergen, Norway); Nesje, Atle; Dahl, Svein Olaf and Rimonsen, Joachim Riis.

Holocene glacier fluctuations of Grovabreen and Holocene snow-avalanche activity reconstructed from lake sediments in Groningstolsvatnet, western Norway: **The Holocene**, 12(2), p. 211-222, illus. incl. 3 tables, sketch map, 57 ref., 2002.

56005684

Cazeneuve, H.; Araujo, J. and Ginzburg, M.

Antarctica in the global warming: **Contribuciones del Instituto Antártico Argentino**, 532, 18 p., illus., 18 ref., 2001.

56005685

Eisen, O. (University of Alaska, Geophysical Institute, Fairbanks, AK); Harrison, W. D. and Raymond, Charles F.

The surges of Variegated Glacier, Alaska, U.S.A., and their connection to climate and mass balance: **Journal of Glaciology**, 47(158), p. 351-358, illus. incl. 3 tables, geol. sketch map, 2001.

56005686

Khazendar, A. (Université Libre de Bruxelles, Département des Sciences de la Terre et de l'Environnement, Brussels, Belgium); Tison, J. L.; Stenni, B.; Dini, M. and Bondesan, A.

Significant marine-ice accumulation in the ablation zone beneath an Antarctic ice shelf: **Journal of Glaciology**, 47(158), p. 359-368, illus. incl. geol. sketch map, block diag., 42 ref., 2001.

56005687

Cuffey, K. M. (University of California, Department of Geography, Berkeley, CA).

Interannual variability of elevation on the Greenland ice sheet; effects of firn densification, and establishment of a multi-century benchmark: **Journal of Glaciology**, 47(158), p. 369-377, illus. incl. 1 table, 34 ref., 2001.

56005688

Wadham, J. L. (University of Bristol, Bristol Glaciology Center, Bristol, United Kingdom); Cooper, R. J.; Tranter, M. and Hodgkins, R.

Enhancement of glacial solute fluxes in the proglacial zone of a polythermal glacier: **Journal of Glaciology**, 47(158), p. 378-386, illus. incl. 4 tables, geol. sketch map, 23 ref., 2001.

56005689

Bintanja, Richard (Utrecht University, Institute for Marine and Atmospheric Research, Utrecht, Netherlands) and Reijmer, Carleen H.

Detailed observations of the rippled surface of Antarctic blue ice areas: **Journal of Glaciology**, 47(158), p. 387-396, illus. incl. 4 tables, sect., 23 ref., 2001.

56005690

Wellner, J. S. (Rice University, Department of Earth Science, Houston, TX); Lowe, A. L.; Shipp, S. S. and Anderson, J. B.

Distribution of glacial geomorphic features on the Antarctic continental shelf and correlation with substrate; implications for ice behavior: **Journal of Glaciology**, 47(158), p. 397-411, illus. incl. geol. sketch map, 3 tables, sects., 70 ref., 2001.

56005691

Ensminger, Staci L. (Northwest Missouri State University, Department of Geology and Geography, Maryville, MO); Alley, Richard B.; Evenson, Edward B.; Lawson, Daniel E. and Larson, Grahame J.

Basal-crevasse-fill origin of laminated debris bands at Matanuska Glacier, Alaska, U.S.A.: **Journal of Glaciology**, 47(158), p. 412-422, illus. incl. 3 tables, 70 ref., 2001. CRREL Report No: ERDC/CRREL MP-02-5918

56005692

Shiraiwa, Takayuki (Hokkaido University, Institute of Low Temperature Science, Sapporo, Japan); Murav'yev, Yaroslav D.; Kameda, Takao; Nishio, Fumihiko; Toyama, Yoko; Takahashi, Akiyoshi; Ovsyannikov, Alexander A.; Salanmatin, Andrey N. and Yamagata, Kotaro.

Characteristics of a crater glacier at Ushkovsky Volcano, Kamchatka, Russia, as revealed by the physical properties of ice cores and borehole thermometry: **Journal of Glaciology**, 47(158), p. 423-432, illus. incl. 1 table, geol. sketch map, 25 ref., 2001.

56005693

Six, Delphine (Université Joseph Fourier, Laboratoire de Glaciologie et Géophysique de l'Environnement, Saint-Martin-d'Hères, France); Letréguilly, Anne and Reynaud, Louis. Greenland ice-sheet mass-balance distribution; a variance analysis of existing field data: **Journal of Glaciology**, 47(158), p. 441-451, illus. incl. 5 tables, geol. sketch map, 48 ref., 2001.

56005695

Smidsrud, Lars Henrik (University of Bergen, Geophysical Institute, Bergen, Norway). Frazil-ice entrainment of sediment; large-tank laboratory experiments: **Journal of Glaciology**, 47(158), p. 461-471, illus. incl. 3 tables, 35 ref., 2001.

56005696

Kavanaugh, Jeffrey L. (University of British Columbia, Department of Ocean Sciences, Vancouver, BC, Canada) and Clarke, Garry K. C.

Abrupt glacier motion and reorganization of basal shear stress following the establishment of a connected drainage system: **Journal of Glaciology**, 47(158), p. 472-480, illus. incl. geol. sketch map, 37 ref., 2001.

56005697

Isaksson, Elisabeth (Norwegian Polar Institute, Tromso, Norway); Karlen, Wibjorn; Mayewski, Paul A.; Twickler, Mark and Whitlow, Sallie.

A high-altitude snow chemistry record from Amundsenisen, Dronning Maud Land, Antarctica: **Journal of Glaciology**, 47(158), p. 489-496, illus. incl. 3 tables, geol. sketch map, 65 ref., 2001.

56005698

Pelto, Mauri S. (Nichols College, Department of Environmental Science, Dudley, MA) and Hedlund, Cliff.

Terminus behavior and response time of North Cascade glaciers, Washington, U.S.A.: **Journal of Glaciology**, 47(158), p. 497-506, illus. incl. 4 tables, 2001.

56005699

Thorsteinsson, Throstur (University of Washington, Department of Earth and Space Sciences, Seattle, WA).

An analytical approach to deformation of anisotropic ice-crystal aggregates: **Journal of Glaciology**, 47(158), p. 507-516, illus., 53 ref., 2001.

56005700

Theakstone, Wilfred H. (University of Manchester, Manchester, United Kingdom).

Fracturing and sediment deposition at the glacier surface by jokulhlaups; a common occurrence: **Journal of Glaciology**, 47(158), p. 517-518, illus. incl. 1 table, 27 ref., 2001.

56005701

Kang Shichang (Environment and Engineering Laboratory, Lanzhou, China); Qin Dahe; Mayewski, Paul A.; Xie Shcheng and Duan Keqin.

Evidence of the Kuwaiti oil fires in the Dasupopu glacier ice core, central Himalaya: **Journal of Glaciology**, 47(158), p. 519-520, illus., 12 ref., 2001.

56005702

Lichey, Christopher (Alfred Wegener Institute for Polar and marine Research, Bremerhaven, Federal Republic of Germany) and Hellmer, Hartmut H.

Modeling giant-iceberg drift under the influence of sea ice in the Weddell Sea, Antarctica: **Journal of Glaciology**, 47(158), p. 452-460, illus. incl. 1 table, geol. sketch map, 26 ref., 2001.

56005703

Iverson, Neal R. (Iowa State University, Department of Geological and Atmospheric Sciences, Ames, IA) and Iverson, Richard M.

Distributed shear of subglacial till due to Coulomb slip: **Journal of Glaciology**, 47(158), p. 481-488, illus., 2001.

56005704

Gorelik, Iakov Borisovich (Rossiiskaia Akademii Nauk, Sibirskoe Otdelenie, Institut Kriosfery Zemli, Tyumen, Russian Federation) and Kolenin, Vladimir Sergeevich.

Udivitel'naia merzlota [Amazing permafrost]: **Priroda**, 2001(10), p. 7-15 (English sum.), illus., 5 ref., 2001.

56005705

Schaetzl, Randall J. (Michigan State University, Department of Geography, East Lansing, MI).

A Spodosol-Entisol transition in northern Michigan: **Soil Science Society of America Journal**, 66(4), p. 1272-1284, illus. incl. 3 tables, geol. sketch maps, 65 ref., August 2002. WWW. Accessed on Sept. 6, 2002.

<http://www.scijournals.org/>

56005706

Jarman, David (Mountain Landform Research, Stirling, United Kingdom) and Ballantyne, Colin K.

Beinn Fhada, Kintail; an example of large-scale paraglacial rock slope deformation: **Scottish Geographical Journal**, 118(1), p. 59-68, illus. incl. geol. sketch maps, 16 ref., 2002.

56005707

Kleiven, H. Flesche (University of Bergen, Bjerknes Center for Climate Research and Department of Geology, Bergen, Norway); Jansen, E.; Fronval, T. and Smith, T. M.

Intensification of Northern Hemisphere glaciations in the circum Atlantic region (3.5-2.4 Ma); ice rafted detritus evidence: **Palaeogeography, Palaeoclimatology, Palaeoecology**, 184(3-4), p. 213-223, illus. incl. 1 table, sketch map, 51 ref., August 15, 2002.

56005708

Funder, Svend (Geological Museum, Copenhagen, Denmark); Demidov, Igor and Yelovicheva, Yadviga.

Hydrography and mollusc faunas of the Baltic and the White Sea-North Sea seaway in the Eemian: **Palaeogeography, Palaeoclimatology, Palaeoecology**, 184(3-4), p. 275-304, illus. incl. 3 tables, sketch maps, 139 ref., August 15, 2002.

56005709

Eyles, Nicholas (University of Toronto at Scarborough, Environmental Earth Sciences, Scarborough, ON, Canada); Mory, Arthur J. and Backhouse, John.

Carboniferous-Permian palynostratigraphy of West Australian marine rift basins; resolving tectonic and eustatic controls during Gondwanan glaciations: **Palaeogeography, Palaeoclimatology, Palaeoecology**, 184(3-4), p. 305-319, illus. incl. geol. sketch map, 88 ref., August 15, 2002.

56005710

Heinrichs, Markus L. (Climate Impacts Research Centre, Abisko Naturvetenskapliga Station, Abisko, Sweden); Hebda, Richard J.; Walker, Ian R. and Palmer, Samantha L.

Postglacial paleoecology and inferred paleoclimate in the Engelmann spruce-subalpine fir forest of south-central British Columbia, Canada: **Palaeogeography, Palaeoclimatology, Palaeoecology**, 184(3-4), p. 347-369, illus. incl. 1 table, sketch map, 84 ref., August 15, 2002.

56005711

Dommergues, Jean-Louis (Université de Bourgogne, Centre des Sciences de la Terre, Dijon, France) and El Hariri, Khadija.

Endemism as a palaeobiogeographic parameter of basin history illustrated by early- and mid-Liassic peri-Tethyan ammonite faunas: **Palaeogeography, Palaeoclimatology, Palaeoecology**, 184(3-4), p. 407-418, illus. incl. geol. sketch maps, 87 ref., August 15, 2002.

56005713

Etienne, Samuel (Université de Paris I Panthéon-Sorbonne, France) and Dupont, Jöelle.

Fungal weathering of basaltic rocks in a cold oceanic environment (Iceland); comparison between experimental and field observations: **Earth Surface Processes and Landforms**, 27(7), p. 737-748, illus. incl. 7 plates, 1 table, geol. sketch maps, 55 ref., July 7, 2002.

56005714

Schildgen, Taylor (Williams College, Department of Geosciences, Williamstown, MA);

Dethier, David P.; Bierman, Paul and Caffee, Marc.

²⁶Al and ¹⁰Be dating of late Pleistocene and Holocene fill terraces; a record of fluvial deposition and incision, Colorado Front Range: **Earth Surface Processes and Landforms**, 27(7), p. 773-787, illus. incl. sects., 3 tables, geol. sketch map, 55 ref., July 7, 2002.

56005715

Thorn, Colin E. (University of Illinois, Department of Geography, Urbana, IL); Darmody, Robert G.; Dixon, John C. and Schlyter, Peter.

Weathering rates of buried machine-polished rock disks, Karkevagge, Swedish Lapland: **Earth Surface Processes and Landforms**, 27(8), p. 831-845, illus. incl. 2 tables, geol. sketch map, 32 ref., August 2002.

56005716

Vasil'chuk, Iu. K. (Moskovskii Gosudarstvenny Universitet, Geologicheskii i Geograficheskii Fakul'tety, Moscow, Russian Federation).

Model' tsiklicheskii-pul'siruiushchego formirovaniia singeneticeskikh tolshch s moshchnymi povtorno-zhil'nyimi l'dami [Model of cyclic-pulsing formation of syngenetic permafrost thickness with large secondary ice-wedges]: **Kriosfera Zemli**, 3(2), p. 3-12 (English sum.), illus., 14 ref., June 1999.

56005717

Marchenko, S. S. (Rossiiskaia Akademii Nauk, Sibirskoe Otdelenie, Institut Merzlovedeniia im. P. I. Mel'nikova, Iakutsk, Russian Federation).

Sovremennoe i ozhidaemoe v XXI v. izmenenie merzlotno-klimaticeskikh uslovii v Severnom Tyan'-Shane [Modern changes and changes expected for the 21st century in permafrost-climatic conditions in northern Tien Shan]: **Kriosfera Zemli**, 3(2), p. 13-21 (English sum.), illus. incl. 2 tables, sketch map, 20 ref., June 1999.

56005718

Romanovskii, N. N. (Moskovskii Gosudarstvenny Universitet, Geologicheskii Fakul'tet, Kafedra Geokriologii, Moscow, Russian Federation); Kholodov, A. L.; Gavrilov, A. V.; Tumskoi, V. E.; Khubberten, G. V. and Kassens, Kh.

Moshchnost' merzlykh tolshch vostochnoi chasti shel'fa morya Laptevykh; rezul'taty modelirovaniia [Frozen ground thickness in eastern part of Laptev Sea shelf; computer modeling results]: **Kriosfera Zemli**, 3(2), p. 22-32 (English sum.), sects., 2 tables, sketch maps, 35 ref., June 1999.

56005719

Konovalov, A. A. (Rossiiskaia Akademiiia Nauk, Sibirskoe Otdelenie, Institut Problem Osvoeniia Severa, Tyumen, Russian Federation) and Danilov, I. D.

Transgressii i regressii Arkticheskogo basseina kak prichina mnogosloinogo stroeniiia merzlykh tolshch Severa Zapadnoi Sibiri [Transgressions and regressions of Arctic Basin as cause of multi-level structure of permafrost sequences in West Siberia]: **Kriosfera Zemli**, 3(2), p. 33-39 (English sum.), illus. incl. 1 table, 16 ref., June 1999.

56005720

Fotiev, S. M. (Rossiiskaia Akademiiia Nauk, Sibirskoe Otdelenie, Institut Kriosfery Zemli, Tyumen, Russian Federation).

Zakonomernosti formirovaniia ionno-solevogo sostava prirodnnykh vod Iamala [Regularities of ionic-saline composition of natural water formation, Yamal Peninsula]: **Kriosfera Zemli**, 3(2), p. 40-65 (English sum.), illus. incl. 2 tables, 14 ref., June 1999.

56005721

Gorelik, Ia. B. (Rossiiskaia Akademiiia Nauk, Sibirskoe Otdelenie, Institut Kriosfery Zemli, Tyumen, Russian Federation) and Kolumin, V. S.

Ob usloviiakh sushchestvovaniia zhidkoi fazy vo l'du [Conditions of liquid phase existence in ice]: **Kriosfera Zemli**, 3(2), p. 71-81 (English sum.), illus., 23 ref., June 1999.

56005722

Voronkov, O. K. (Vserossiiskii Nauchno-Issledovatel'skii Institut Gidrotehniki im. B. E. Vedeneeva, Saint Petersburg, Russian Federation).

Ispol'zovanie kompleksa geofizicheskikh kharakteristik dlya otsenki deformiruemosti l'donasyshchennykh krupnooblomochnykh gruntov [Complex of geophysical parameters for estimation of deformability of ice-saturated coarse-grained soils]: **Kriosfera Zemli**, 3(2), p. 82-85 (English sum.), illus., 1 ref., June 1999.

56005723

Vtyurin, G. M. (Rossiiskaia Akademiiia Nauk, Ural'skoe Otdelenie, Komi Nauchnyy Tsentr, Institut Biologii, Russian Federation).

Paleokriogenet i paleopochvoobrazovanie v taezhnykh pochvakh severo-vostoka Evropy [Paleocryogenesis and paleopedogenesis in taiga soils of northeastern Europe]: **Kriosfera Zemli**, 3(2), p. 86-96 (English sum.), illus. incl. sketch maps, 25 ref., June 1999.

56005724

Kamenskii, R. M. (Rossiiskaia Akademiiia Nauk, Sibirskoe Otdelenie, Institut Merzlotovedeniia im. P. I. Mel'nikova, Iakutsk, Russian Federation).

Monitoring prirodno-tehnicheskikh sistem v kriolitozone [Monitoring of geotechnical systems in permafrost areas]: **Kriosfera Zemli**, 3(4), p. 3-8 (English sum.), illus., 23 ref., December 1999.

56005725

Alekseeva, O. I. (Rossiiskaia Akademiiia Nauk, Sibirskoe Otdelenie, Institut Merzlotovedeniia im. P. I. Mel'nikova, Iakutsk, Russian Federation); Demchenko, R. Ia. and Kurchatova, A. N.

Monitoring merzlykh osnovanii zdani v Iakutske [Monitoring of frozen foundation soils in Iakutsk]: **Kriosfera Zemli**, 3(4), p. 9-14 (English sum.), illus. incl. 2 tables, 9 ref., December 1999.

56005726

Anisimov, O. A. (Gosudarstvennyy Gidrologicheskii Institut, Saint Petersburg, Russian Federation); Nel'son, F. E. and Pavlov, A. V.

Prognoznye stsenarii evolyutsii kriolitozony pri global'nykh izmeneniiakh klimata v XXI veke [Predictive scenarios of permafrost development under conditions of global climate change in the 21st century]: **Kriosfera Zemli**, 3(4), p. 15-25 (English sum.), illus. incl. 3 tables, sketch maps, 22 ref., December 1999.

56005727

Kozlov, A. N. (Moskovskii Gosudarstvennyy Universitet, Geologicheskii Fakul'tet, Moscow, Russian Federation); Parmuzin, S. Iu. and Pustovoit, G. P.

Veroiatnostnoe prognozirovaniye srednegodovoi temperatury gruntov i ikh ustochivosti k ottaivaniyu i promerzaniyu [Probabilistic forecast of the average annual temperature of soils and their resistance to thawing and freezing]: **Kriosfera Zemli**, 3(4), p. 26-31 (English sum.), illus. incl. table, 6 ref., December 1999.

56005728

Konchenko, L. A. (Rossiiskaia Akademiiia Nauk, Sibirskoe Otdelenie, Institut Kriosfery Zemli, Tyumen, Russian Federation).

Osobennosti prostranstvennykh izmenenii uvelicheniiia moshchnosti sezonnatalogo sloia pri poteplenii klimata (po kriolitologicheskim dannym) [Peculiarities of spatial changes in the thickness of the active layer under climate warming; cryolithological data]: **Kriosfera Zemli**, 3(4), p. 32-38 (English sum.), illus. incl. 2 tables, 20 ref., December 1999.

56005729

Konishchev, V. N. (Moskovskii Gosudarstvennyy Universitet, Geograficheskii Fakul'tet, Moscow, Russian Federation).

Evolutsiya temperatury porod arktilcheskoi zony Rossii v verkhnem kainozoe [Evolution of ground temperature of the Russian Arctic in the upper Cenozoic]: **Kriosfera Zemli**, 3(4), p. 39-47 (English sum.), illus., 15 ref., December 1999.

56005730

Balobaev, V. T. (Rossiiskaia Akademiiia Nauk, Sibirskoe Otdelenie, Institut Merzlotovedeniia im. P. I. Mel'nikova, Iakutsk, Russian Federation); Tetel'baum, A. S. and Mordovskoi, S. D.

Dvumernaia matematicheskaia model' gidrodinamicheskogo polya v podmerzlotnoi tolshche pri izmeneniiakh moshchnosti kriolitozony [Two-dimensional numerical model of hydrodynamic field below permafrost during changes in permafrost thickness]: **Kriosfera Zemli**, 3(4), p. 48-53 (English sum.), illus., 6 ref., December 1999.

56005731

Danilov, I. D. (Moskovskii Gosudarstvennyy Universitet, Geologicheskii Fakul'tet, Moscow, Russian Federation); Buldovich, S. N. and Lukovkin, D. S.

Model' dinamiki teploobmena v porodakh Karskogo shel'fa i paleoshel'fa v pozdnem pleistotsene-golotsene i submarinnyy kriolitogenez [Model of heat dynamics in the rocks of the Kara Sea shelf and paleoshelf in the late Pleistocene and Holocene; submarine cryolithogenesis]: **Kriosfera Zemli**, 3(4), p. 54-60 (English sum.), illus., 13 ref., December 1999.

56005732

Shpolyanskaia, N. A. (Moskovskii Gosudarstvenny Universitet, Geograficheskii Fakul'tet, Moscow, Russian Federation).

Kriogennoe stroenie dislotsirovannykh tolshch s plastovymi l'dami kak pokazatel' ikh genezisa (sever Zapadnoi Sibiri) [Cryogenic structure of dislocated deposits with massive ice beds as indicator of their genesis; north of West Siberia]: **Kriosfera Zemli**, 3(4), p. 61-70 (English sum.), illus. incl. 2 tables, 35 ref., December 1999.

56005733

Gavril'ev, P. P. (Rossiiskaia Akademija Nauk, Sibirskoe Otdelenie, Institut Merzlotovedeniia im. P. I. Mel'nikova, Iakutsk, Russian Federation); Ugarov, I. S. and Efremov, P. V.

Ob izmenchivosti parametrov deiatel'nogo sloia agrozemel' Tsentral'noi Iakutii [Variability of active layer parameters in agricultural areas, central Iakutia]: **Kriosfera Zemli**, 3(4), p. 71-77 (English sum.), illus. incl. 5 tables, sketch map, 17 ref., December 1999.

56005734

Valeeva, E. I. (Rossiakaia Akademija Nauk, Sibirskoe Otdelenie, Institut Problem Osvoeniia Severa, Tyumen, Russian Federation) and Feklistov, V. N.

Fitorekul'tivatsiia narushennykh zemel' na Krainem Severe s pomoshch'iu karbamidoformal'degidnykh pen [Phytorecultivation of disturbed soils in the Far North with urea foams]: **Kriosfera Zemli**, 3(4), p. 78-83 (English sum.), illus., 20 ref., December 1999.

56005735

Khrustalev, L. N. (Moskovskii Gosudarstvenny Universitet, Geologicheskii Fakul'tet, Moscow, Russian Federation).

Problemy inzhenernoi geokriologii na rubezhe XXI veka [Permafrost engineering problems on the verge of the 21st century]: **Kriosfera Zemli**, 4(1), p. 3-10 (English sum.), 10 ref., March 2000.

56005736

Gorbunov, A. P. (Rossiiskaia Akademija Nauk, Sibirskoe Otdelenie, Institut Merzlotovedeniia im. P.I. Mel'nikova, Kazakhstanskaia Vysokogorniaia Geokriologcheskaia Laboratoriia, Almaty, Kazakhstan); Marchenko, S. S. and Severskii, Eh. V.

Reaktsiia mnogoletne- i sezonnomerzlykh porod Severnogo Tyan'-Shanya na izmeneniiia klimata [Permafrost and seasonally frozen ground response to climate change in the northern Tien Shan]: **Kriosfera Zemli**, 4(1), p. 11-17 (English sum.), illus. incl. table, 9 ref., March 2000.

56005737

Danilov, I. D. (Moskovskii Gosudarstvenny Universitet, Geologicheskii Fakul'tet, Moscow, Russian Federation); Komarov, I. A. and Vlasenko, A. Iu.

Kriolitozona Vostochno-Sibirskogo shel'fa v poslednie 80 000 let [The cryolithozone of the East Siberian shelf during the last 80,000 years]: **Kriosfera Zemli**, 4(1), p. 18-23 (English sum.), illus. incl. sketch map, 9 ref., March 2000.

56005738

Kharris, S. A. (The University of Calgary, Department of Geography, Calgary, Canada). Datirovannye pliotsenovye i pleistotsenovye kriogennye sobytiiia (oledeneniiia i merzlotnye iavleniiia) v Kordil'erakh na zapade Severnoi Ameriki [Pliocene and Pleistocene glaciations and permafrost events proven to date in the Cordillera of western Northern America]: **Kriosfera Zemli**, 4(1), p. 24-43 (English sum.), 5 tables, sketch maps, 174 ref., March 2000.

56005739

Duchkov, A. D. (Rossiiskaia Akademiia Nauk, Sibirskoe Otdelenie, Institut Geofiziki, Novosibirsk, Russian Federation); Sokolova, L. S. and Pavlov, A. V. Otsenka sovremennoykh izmenenii temperatury vozdukha i gruntu v Zapadnoi Sibiri [Estimation of modern changes in air and soil temperature in West Siberia]: **Kriosfera Zemli**, 4(1), p. 52-59 (English sum.), illus. incl. sketch maps, 25 ref., March 2000.

56005740

Topchiev, A. G. (Moskovskii Gosudarstvenny Universitet, Geograficheskii Fakul'tet, Laboratoriia Geohkologii Severa, Moscow, Russian Federation) and Devichev, A. A. Novyy podkhod k organizatsii geoehkologicheskogo monitoringa neftyanykh mestorozhdenii Zapadnoi Sibiri [New approach to organization of geological monitoring of West Siberian oil fields]: **Kriosfera Zemli**, 4(1), p. 60-66 (English sum.), illus., 6 ref., March 2000.

56005741

Anan'eva, G. V. (Rossiiskaia Akademiia Nauk, Sibirskoe Otdelenie, Institut Kriosfery Zemli, Tyumen, Russian Federation). Izuchenie ozernosti Rossiiskoi Arktiki s ispol'zovaniem GIS-tehnologii [Study of the distribution of lakes in Russian Arctic with the use of GIS-technologies]: **Kriosfera Zemli**, 4(1), p. 67-73 (English sum.), illus. incl. table, sketch map, 16 ref., March 2000.

56005742

Smit, K. Eh. (Agriculture and Agri-Food Canada, Pacific Agri-Food Research Center, Whitehorse, Canada); Ping, Ch. L.; Foks, K. A. and Kodama, E. Osobennosti vyvetrivaniiia pochv, sformirovannykh na peplakh (reka Belaia, territoriia Iukon, Kanada) [Weathering characteristics of three pedons formed in White River Tephra, Yukon Territory, Canada]: **Kriosfera Zemli**, 4(1), p. 74-82 (English sum.), illus. incl. 2 plates, 3 tables, sketch map, 28 ref., March 2000.

56005743

Klaridzh, G. G. C. (Land and Soil Consultancy Services, Nelson, New Zealand) and Kehmpbell, I. B.

Eksperiment s ispol'zovaniem khlorida litia dlya illyustratsii peremeshcheniiia zagryaznyaishchikh veshchestv v pochvakh kholodnoi pustyni [Experimental use of lithium chloride to illustrate the movement of contaminants in soils of the cold desert]: **Kriosfera Zemli**, 4(1), p. 83-87 (English sum.), illus. incl. sketch map, 4 ref., March 2000.

56005744

Huntley, David (British Columbia Open University, Victoria, BC, Canada); Mosher, David C.; Kung, Robert; Franklin, Richard and Bobrowsky, Peter T.

Digital reconstruction of late Wisconsinan ice retreat and relative sea level; southeastern Vancouver Island, British Columbia [abstr.]: *in* Geological Society of America, Cordilleran Section and associated societies, 96th annual meeting; abstracts, **Abstracts with Programs - Geological Society of America**, 32(6), p. 20, April 2000. *Meeting:* April 27 - 29, 2000, Vancouver, BC, Canada.

56005745

Levson, Victor M. (British Columbia Geological Survey, Victoria, BC, Canada) and Stumpf, Andrew J.

An interior Cordilleran ice divide in north-central British Columbia [abstr.]: *in* Geological Society of America, Cordilleran Section and associated societies, 96th annual meeting; abstracts, **Abstracts with Programs - Geological Society of America**, 32(6), p. 24, April 2000. *Meeting:* April 27 - 29, 2000, Vancouver, BC, Canada.

56005746

Chen, X. Z. (Chinese Academy of Sciences, Lanzhou Institute of Glaciology and Geocryology, Lanzhou, China); Li, X.; Li, P. J.; Bo, Y. C.; Armstrong, R. L. and Brodzik, M. J.

High-Asia snow cover monitoring using DMSP SSM/I passive microwave data: **Asian-Pacific Remote Sensing and GIS Journal**, 11(1), p. 29-35, 2 tables, sketch map, 9 ref., July 1998.

56005747

Komjathy, A.; Maslanik, J. A.; Zavorotny, V. U.; Axelrad, P. and Katzberg, S. J.

Towards GPS surface reflection remote sensing of sea ice conditions: 10 p., 2000. *Available from:* National Technical Information Service, (703)487-4650, order number N20010124078NEG, Springfield, VA, United States. (Grant NAG1-1927). Presented at the 6th International Conference on Remote Sensing for Marine and Coastal Environments, Charleston, SC, May 1-3, 2000.

56005748

Stenni, Barbara (University of Trieste, Department of Geological, Environmental and Marine Sciences, Trieste, Italy); Serra, Francesca; Frezzotti, Massimo; Maggi, Valter; Traversi, Rita; Becagli, Silvia and Udisti, Roberto.

Snow accumulation rates in northern Victoria Land, Antarctica, by firn-core analysis: **Journal of Glaciology**, 46(155), p. 541-552, illus. incl. 2 tables, 78 ref., 2000.

56005749

Fricker, Helen A. (University of Tasmania, Antarctic CRC and Institute of Antarctic and Southern Ocean Studies, Tasmania, Australia); Hyland, Glenn; Coleman, Richard and Young, Neal W.

Digital elevation models for the Lambert Glacier-Amery ice shelf system, East Antarctica, from ERS-1 satellite radar altimetry: **Journal of Glaciology**, 46(155), p. 553-560, illus. incl. 1 table, 29 ref., 2000. Includes appendix.

56005750

Fricker, Helen A. (University of Tasmania, Antarctic CRC and Institute of Antarctic and Southern Ocean Studies, Hobart, Tasmania, Australia); Warner, Roland C. and Allison, Ian.

Mass balance of the Lambert Glacier-Amery Ice Shelf system, East Antarctica; a comparison of computed balance fluxes and measured fluxes: **Journal of Glaciology**, 46(155), p. 561-570, illus. incl. 1 table, sketch map, 28 ref., 2000.

56005751

Oerlemans, J. (Utrecht University, Institute for Marine and Atmospheric Research, Utrecht, Netherlands).

Analysis of a 3 year meteorological record from the ablation zone of Morteratschgletscher, Switzerland; energy and mass balance: **Journal of Glaciology**, 46(155), p. 571-579, illus. incl. 1 table, 20 ref., 2000.

56005752

Ng, Felix S. L. (University of Oxford, Mathematical Institute, Oxford, United Kingdom).

Coupled ice-till deformation near subglacial channels and cavities: **Journal of Glaciology**, 46(155), p. 580-598, illus. incl. 1 table, 38 ref., 2000. Includes appendix.

56005753

Cohen, Denis (University of Minnesota, Department of Geology and Geophysics, Minneapolis, MN); Hooke, Roger LeB.; Iverson, Neal R. and Kohler, Jack.

Sliding of ice past an obstacle at Engabreen, Norway: **Journal of Glaciology**, 46(155), p. 599-610, illus. incl. 1 table, sketch maps, 40 ref., 2000.

56005754

Cohen, Denis (University of Minnesota at Minneapolis, Department of Geology and Geophysics, Minneapolis, MN).

Rheology of ice at the bed of Engabreen, Norway: **Journal of Glaciology**, 46(155), p. 611-621, illus. incl. 6 tables, 49 ref., 2000.

56005755

Kull, Christoph (University of Berne, Geographical Institute, Berne, Switzerland) and Grosjean, Martin.

Late Pleistocene climate conditions in the north Chilean Andes drawn from a climate-glacier model: **Journal of Glaciology**, 46(155), p. 622-632, illus. incl. 4 tables, sketch maps, 35 ref., 2000.

56005756

Thorsteinsson, Throstur (University of Washington, Geophysics Program, Seattle, WA) and Raymond, Charles F.

Sliding versus till deformation in the fast motion of an ice stream over a viscous till: **Journal of Glaciology**, 46(155), p. 633-640, illus., 19 ref., 2000.

56005757

Hooyer, Thomas S. (Iowa State University, Department of Geological and Atmospheric Sciences, Ames, IA) and Iverson, Neal R.

Diffusive mixing between shearing granular layers; constraints on bed deformation from till contacts: **Journal of Glaciology**, 46(155), p. 641-651, illus. incl. 3 tables, 49 ref., 2000.

56005758

Fahnestock, M. A. (University of Maryland, Earth System Science Interdisciplinary Center, College Park, MD); Scambos, T. A.; Bindschadler, R. A. and Kvaran, G.
A millennium of variable ice flow recorded by the Ross Ice Shelf, Antarctica: **Journal of Glaciology**, 46(155), p. 652-664, illus. incl. sketch maps, 41 ref., 2000. Includes appendix.

56005759

Raymond, Charles F. (University of Washington, Geophysics Program, Seattle, WA).
Energy balance of ice streams: **Journal of Glaciology**, 46(155), p. 665-674, illus. incl. 2 tables, 33 ref., 2000.

56005760

Brock, Ben W. (University of Dundee, Department of Geography, Dundee, United Kingdom); Willis, Ian C. and Sharp, Martin J.
Measurement and parameterization of albedo variations at Haut Glacier d'Arolla, Switzerland: **Journal of Glaciology**, 46(155), p. 675-688, illus. incl. 8 tables, sketch maps, 38 ref., 2000.

56005761

Kwok, R. (California Institute of Technology, Jet Propulsion Laboratory, Pasadena, CA); Siegert, M. J. and Carsey, F. D.
Ice motion over Lake Vostok, Antarctica; constraints on inferences regarding the accreted ice: **Journal of Glaciology**, 46(155), p. 689-694, illus. incl. 1 table, 15 ref., 2000.

56005762

Morin, Roger H. (U. S. Geological Survey, Denver, CO); Descamps, Guillaume E. and Cecil, L. DeWayne.
Acoustic televiewer logging in glacier boreholes: **Journal of Glaciology**, 46(155), p. 695-699, illus. incl. sketch map, 14 ref., 2000.

56005763

Siegert, Martin J. (University of Bristol, School of Geographical Sciences, Bristol, United Kingdom) and Bamber, Jonathan L.
Subglacial water at the heads of Antarctic ice-stream tributaries: **Journal of Glaciology**, 46(155), p. 702-703, illus. incl. sketch map, 8 ref., 2000.

56005764

Cullen, D. (Dartmouth College, Thayer School of Engineering, Hanover, NH) and Baker, I.
The chemistry of grain boundaries in Greenland ice: **Journal of Glaciology**, 46(155), p. 703-706, illus., 6 ref., 2000.

56005765

Cosgrove, Brian.

Weather: *in the collection* Dorling Kindersley eyewitness books. Dorling Kindersley Publishing, London, United Kingdom, 28, 63 p., illus., 2000. ISBN: 0-789-5783-9; 0-7894-5782-2. First edition 1991.

publisher <http://www.dk.com>

57000021

Viarengo, Aldo (Universita del Piemonte Oriental, Dipartimento di Scienze e Tecnologie Avanzate, Alessandria, Italy); Mancinelli, Graziella; Burlando, Bruno; Panfoli, Isabella and Marchi, Barbara.

The SR Ca²⁺ ATPase of the Antarctic scallop Adamussium colbecki; cold adaptation and heavy metal effects: **Polar Biology**, 21(6), p. 369-375, illus., 36 ref., 1999.

57000022

Fiala, Michel (Université Pierre et Marie Curie, Observatoire Océanologique de Banyuls, Banyuls-sur-mer, France) and Delille, Daniel.

Annual changes of microalgae biomass in Antarctic sea ice contaminated by crude oil and diesel fuel: **Polar Biology**, 21(6), p. 391-396, illus., 56 ref., 1999.

57000023

Hoyland, Knut V. (Norwegian University of Science and Technology (NTNU), Department of Structural Engineering, Trondheim, Norway).

Simulations of the consolidation process in first-year sea ice ridges: **Cold Regions Science and Technology**, 34(3), p. 143-158, illus. incl. 6 tables, 28 ref., May 2002.

57000024

Stefanovic, Dragoslav L. (WEST Consultants, San Diego, CA) and Stefan, Heinz G.

Two-dimensional temperature and dissolved oxygen dynamics in the littoral region of an ice-covered lake: **Cold Regions Science and Technology**, 34(3), p. 159-178, illus., 23 ref., May 2002.

57000025

Yu Wenbing (Chinese Academy of Sciences, Cold and Arid Regions Environmental and Engineering Research Institute, Lanzhou, China); Lai Yuanming; Zhu Yuanlin; Li Haipeng; Zhang Jianming; Zhang Xuefu and Zhang Shujuan.

In situ determination of mechanical properties of frozen soils with the pressuremeter: **Cold Regions Science and Technology**, 34(3), p. 179-189, illus. incl. 5 tables, 22 ref., May 2002.

57000026

Beltaos, Spyros (National Water Research Institute, Aquatic Ecosystem Conservation Branch, Burlington, ON, Canada).

Collapse of floating ice covers under vertical loads; test data vs. theory: **Cold Regions Science and Technology**, 34(3), p. 191-207, illus. incl. 3 tables, 23 ref., May 2002.

57000027

Riska, Kaj (Helsinki University of Technology, Ship Laboratory, Helsinki, Finland); Uto, Shotaro and Tuhkuri, Jukka.

Pressure distribution and response of multiplate panels under ice loading: **Cold Regions Science and Technology**, 34(3), p. 209-225, illus. incl. 2 tables, 13 ref., May 2002. Includes appendix.

57000028

Kaplan, Jed O. (Max Planck Institute for Biogeochemistry, Jena, Federal Republic of Germany).

Wetlands at the last glacial maximum; distribution and methane emissions: **Geophysical Research Letters**, 29(6), 4 p., illus. incl. 1 table, geol. sketch map, 41 ref., March 15, 2002.

57000029

Meincke, Jens (University of Hamburg, Institute of Oceanography, Hamburg, Federal Republic of Germany).

Climate dynamics of the North Atlantic and NW-Europe; an observation-based overview: *in Climate development and history of the North Atlantic realm* (Wefer, Gerold, editor; *et al.*), Springer-Verlag, Berlin, Federal Republic of Germany, p. 25-40, illus., 30 ref., 2002. *Meeting:* 1st Hanse conference on Past climate and its significance for human history in NW Europe; the last 10,000 years, Oct. 9-14, 1999, Delmenhorst, Federal Republic of Germany.

57000030

Schulz, Michael (University of Kiel, Institute for Geosciences, Kiel, Federal Republic of Germany) and Paul, André

Holocene climate variability on centennial-to-millennial time scales; 1, Climate records from the North-Atlantic realm: *in Climate development and history of the North Atlantic realm* (Wefer, Gerold, editor; *et al.*), Springer-Verlag, Berlin, Federal Republic of Germany, p. 41-54, illus., 44 ref., 2002. *Meeting:* 1st Hanse conference on Past climate and its significance for human history in NW Europe; the last 10,000 years, Oct. 9-14, 1999, Delmenhorst, Federal Republic of Germany.

57000031

Paul, André (Scripps Institution of Oceanography, La Jolla, CA) and Schulz, Michael.

Holocene climate variability on centennial-to-millennial time scales; 2, Internal and forced oscillations as possible causes: *in Climate development and history of the North Atlantic realm* (Wefer, Gerold, editor; *et al.*), Springer-Verlag, Berlin, Federal Republic of Germany, p. 55-73, illus. incl. 1 table, 44 ref., 2002. *Meeting:* 1st Hanse conference on Past climate and its significance for human history in NW Europe; the last 10,000 years, Oct. 9-14, 1999, Delmenhorst, Federal Republic of Germany. Includes appendix.

57000032

Lean, Judith (E. O. Hulbert Center for Space Research, Naval Research Laboratory, Washington, DC).

Solar forcing of climate change in recent millennia: *in Climate development and history of the North Atlantic realm* (Wefer, Gerold, editor; *et al.*), Springer-Verlag, Berlin, Federal Republic of Germany, p. 75-88, illus., 19 ref., 2002. *Meeting:* 1st Hanse conference on Past climate and its significance for human history in NW Europe; the last 10,000 years, Oct. 9-14, 1999, Delmenhorst, Federal Republic of Germany.

57000033

Berger, Wolfgang H. (University of California at La Jolla, California Space Institute, La Jolla, CA); Pätzold, Jürgen and Wefer, Gerold.

A case for climate cycles; orbit, Sun and Moon: *in Climate development and history of the North Atlantic realm* (Wefer, Gerold, editor; *et al.*), Springer-Verlag, Berlin, Federal Republic of Germany, p. 101-123, illus., 69 ref., 2002. *Meeting:* 1st Hanse conference on Past climate and its significance for human history in NW Europe; the last 10,000 years, Oct. 9-14, 1999, Delmenhorst, Federal Republic of Germany.

57000034

Schulz, Michael (University of Kiel, Institute for Geosciences, Kiel, Federal Republic of Germany); Berger, Wolfgang H.; Baillie, Michael G. L.; Luterbacher, Jürg; Meincke, Jens; Negendank, Jörg F. W.; Paul, André and Ramseier, René O.

Tracing climate-variability; the search for climate dynamics on decadal to millennial time scales: *in Climate development and history of the North Atlantic realm* (Wefer, Gerold, editor; *et al.*), Springer-Verlag, Berlin, Federal Republic of Germany, p. 125-148, illus. incl. 1 table, 76 ref., 2002. *Meeting:* 1st Hanse conference on Past climate and its significance for human history in NW Europe; the last 10,000 years, Oct. 9-14, 1999, Delmenhorst, Federal Republic of Germany. Includes appendix.

57000035

Hammer, Claus U. (University of Copenhagen, Department of Geophysics, Copenhagen, Denmark).

Holocene climate and past volcanism; Greenland-northern Europe: *in Climate development and history of the North Atlantic realm* (Wefer, Gerold, editor; *et al.*), Springer-Verlag, Berlin, Federal Republic of Germany, p. 149-163, illus., 31 ref., 2002. *Meeting:* 1st Hanse conference on Past climate and its significance for human history in NW Europe; the last 10,000 years, Oct. 9-14, 1999, Delmenhorst, Federal Republic of Germany.

57000036

Koc, Nalan (Norwegian Polar Institute, Polar Environmental Center, Tromso, Norway) and Jansen, Eystein.

Holocene climate evolution of the North Atlantic Ocean and the Nordic seas; a synthesis of new results: *in Climate development and history of the North Atlantic realm* (Wefer, Gerold, editor; *et al.*), Springer-Verlag, Berlin, Federal Republic of Germany, p. 165-173, illus. incl. sketch map, 32 ref., 2002. *Meeting:* 1st Hanse conference on Past climate and its significance for human history in NW Europe; the last 10,000 years, Oct. 9-14, 1999, Delmenhorst, Federal Republic of Germany.

57000037

Negendank, Jörg F. W. (GeoForschungsZentrum Potsdam, Potsdam, Federal Republic of Germany).

Holocene climatic history of northern Europe; the evidence from lake deposits: *in Climate development and history of the North Atlantic realm* (Wefer, Gerold, editor; *et al.*), Springer-Verlag, Berlin, Federal Republic of Germany, p. 175-190, illus. incl. 2 tables, 31 ref., 2002. *Meeting:* 1st Hanse conference on Past climate and its significance for human history in NW Europe; the last 10,000 years, Oct. 9-14, 1999, Delmenhorst, Federal Republic of Germany.

57000038

Harrison, Sandy P. (Max-Planck Institute for Biogeochemistry, Jena, Federal Republic of Germany); Ge, Yu and Vassiljev, Juri.

Climate changes during the Holocene recorded by lakes from Europe: *in Climate development and history of the North Atlantic realm* (Wefer, Gerold, editor; *et al.*), Springer-Verlag, Berlin, Federal Republic of Germany, p. 191-204, illus., 40 ref., 2002. *Meeting:* 1st Hanse conference on Past climate and its significance for human history in NW Europe; the last 10,000 years, Oct. 9-14, 1999, Delmenhorst, Federal Republic of Germany.

57000039

Emeis, Kay-Christian (Baltic Sea Research Institute, Warnemunde, Federal Republic of Germany); Endler, Rudolf; Struck, Ulrich and Kohly, Alexander.

The post-glacial evolution of the Baltic Sea: *in* Climate development and history of the North Atlantic realm (Wefer, Gerold, editor; *et al.*), Springer-Verlag, Berlin, Federal Republic of Germany, p. 205-221, illus., 28 ref., 2002. *Meeting:* 1st Hanse conference on Past climate and its significance for human history in NW Europe; the last 10,000 years, Oct. 9-14, 1999, Delmenhorst, Federal Republic of Germany.

57000040

Huntley, Brian (University of Durham, Environmental Research Centre, Durham, United Kingdom).

Holocene climatic history of northern Europe as recorded by vegetation changes; possible influences upon human activity: *in* Climate development and history of the North Atlantic realm (Wefer, Gerold, editor; *et al.*), Springer-Verlag, Berlin, Federal Republic of Germany, p. 223-232, illus., 26 ref., 2002. *Meeting:* 1st Hanse conference on Past climate and its significance for human history in NW Europe; the last 10,000 years, Oct. 9-14, 1999, Delmenhorst, Federal Republic of Germany.

57000041

Nesje, Atle (University of Bergen, Department of Geology, Bergen, Norway).

Late glacial and Holocene glacier fluctuations and climatic variations in Southern Norway: *in* Climate development and history of the North Atlantic realm (Wefer, Gerold, editor; *et al.*), Springer-Verlag, Berlin, Federal Republic of Germany, p. 233-258, illus. incl. sketch map, 53 ref., 2002. *Meeting:* 1st Hanse conference on Past climate and its significance for human history in NW Europe; the last 10,000 years, Oct. 9-14, 1999, Delmenhorst, Federal Republic of Germany.

57000042

Huntley, Brian (University of Durham, Environmental Research Centre, Durham, United Kingdom); Baillie, Michael G. L.; Grove, Jean M.; Hammer, Claus U.; Harrison, Sandy P.; Jacomet, Stefanie; Jansen, Eystein; Karlen, Wibjorn; Koc, Nalan; Luterbacher, Jürg; Negendank, Jörg F. W. and Schibler, Jörg.

Holocene palaeoenvironmental changes in North-west Europe; climatic implications and the human dimension: *in* Climate development and history of the North Atlantic realm (Wefer, Gerold, editor; *et al.*), Springer-Verlag, Berlin, Federal Republic of Germany, p. 259-298, illus. incl. 1 table, 189 ref., 2002. *Meeting:* 1st Hanse conference on Past climate and its significance for human history in NW Europe; the last 10,000 years, Oct. 9-14, 1999, Delmenhorst, Federal Republic of Germany.

57000043

Behre, Karl-Ernst (Niedersächsisches Institut für historische Küstenforschung, Wilhelmshaven, Federal Republic of Germany).

Landscape development and occupation history along the southern North Sea Coast: *in* Climate development and history of the North Atlantic realm (Wefer, Gerold, editor; *et al.*), Springer-Verlag, Berlin, Federal Republic of Germany, p. 299-312, illus., 23 ref., 2002. *Meeting:* 1st Hanse conference on Past climate and its significance for human history in NW Europe; the last 10,000 years, Oct. 9-14, 1999, Delmenhorst, Federal Republic of Germany.

57000044

Grove, Jean M. (Girton College, Cambridge, United Kingdom).

Climatic change in northern Europe over the last two thousand years and its possible influence on human activity: *in Climate development and history of the North Atlantic realm* (Wefer, Gerold, editor; *et al.*), Springer-Verlag, Berlin, Federal Republic of Germany, p. 313-326, illus. incl. sketch maps, 34 ref., 2002. *Meeting:* 1st Hanse conference on Past climate and its significance for human history in NW Europe; the last 10,000 years, Oct. 9-14, 1999, Delmenhorst, Federal Republic of Germany.

57000045

Baten, Joerg (University of Munich, Department of Economics, Munich, Federal Republic of Germany).

Human stature and climate; the impact of past climate on living standards: *in Climate development and history of the North Atlantic realm* (Wefer, Gerold, editor; *et al.*), Springer-Verlag, Berlin, Federal Republic of Germany, p. 327-338, illus., 24 ref., 2002. *Meeting:* 1st Hanse conference on Past climate and its significance for human history in NW Europe; the last 10,000 years, Oct. 9-14, 1999, Delmenhorst, Federal Republic of Germany.

57000046

Knottnerus, Otto S. (Uiterburen 47, Zuidbroek, Netherlands).

Malaria around the North Sea; a survey: *in Climate development and history of the North Atlantic realm* (Wefer, Gerold, editor; *et al.*), Springer-Verlag, Berlin, Federal Republic of Germany, p. 339-353, illus. incl. 1 table, 63 ref., 2002. *Meeting:* 1st Hanse conference on Past climate and its significance for human history in NW Europe; the last 10,000 years, Oct. 9-14, 1999, Delmenhorst, Federal Republic of Germany.

57000047

Brazdil, Rudolf (Masaryk University, Department of Geography, Brno, Czech Republic).

Patterns of climate in Central Europe since Viking times: *in Climate development and history of the North Atlantic realm* (Wefer, Gerold, editor; *et al.*), Springer-Verlag, Berlin, Federal Republic of Germany, p. 355-368, illus., 35 ref., 2002. *Meeting:* 1st Hanse conference on Past climate and its significance for human history in NW Europe; the last 10,000 years, Oct. 9-14, 1999, Delmenhorst, Federal Republic of Germany.

57000048

Baillie, Michael G. L. (Queen's University of Belfast, School of Archaeology and Palaeoecology, Belfast, United Kingdom).

“Narrowest-ring” events in the Irish oak chronology; uncertainties in reconstructing cause and effect in prehistory: *in Climate development and history of the North Atlantic realm* (Wefer, Gerold, editor; *et al.*), Springer-Verlag, Berlin, Federal Republic of Germany, p. 377-385, 30 ref., 2002. *Meeting:* 1st Hanse conference on Past climate and its significance for human history in NW Europe; the last 10,000 years, Oct. 9-14, 1999, Delmenhorst, Federal Republic of Germany.

57000049

Streif, Hansjörg (Geological Survey of Lower Saxony, Hanover, Federal Republic of Germany).

The Pleistocene and Holocene development of the southeastern North Sea Basin and adjacent coastal areas: *in Climate development and history of the North Atlantic realm* (Wefer, Gerold, editor; *et al.*), Springer-Verlag, Berlin, Federal Republic of Germany, p. 387-397, illus., 24 ref., 2002. *Meeting:* 1st Hanse conference on Past climate and its significance for human history in NW Europe; the last 10,000 years, Oct. 9-14, 1999, Delmenhorst, Federal Republic of Germany.

57000050

Alheit, Jürgen (Baltic Sea Research Institute, Warnemunde, Federal Republic of Germany) and Hagen, Eberhard.

Climate variability and historical NW European fisheries: *in* Climate development and history of the North Atlantic realm (Wefer, Gerold, editor; *et al.*), Springer-Verlag, Berlin, Federal Republic of Germany, p. 435-445, illus., 25 ref., 2002. *Meeting:* 1st Hanse conference on Past climate and its significance for human history in NW Europe; the last 10,000 years, Oct. 9-14, 1999, Delmenhorst, Federal Republic of Germany.

57000051

Lindeboom, Han J. (Netherlands Institute for Sea Research, Den Burg, Netherlands).

Changes in coastal zone ecosystems: *in* Climate development and history of the North Atlantic realm (Wefer, Gerold, editor; *et al.*), Springer-Verlag, Berlin, Federal Republic of Germany, p. 447-455, illus., 41 ref., 2002. *Meeting:* 1st Hanse conference on Past climate and its significance for human history in NW Europe; the last 10,000 years, Oct. 9-14, 1999, Delmenhorst, Federal Republic of Germany.

57000052

Montresor, Marina (Stazione Zoologica, Naples, Italy) and Smetacek, Victor.

The impact of harmful algal blooms in natural and human-modified systems of northern Europe: *in* Climate development and history of the North Atlantic realm (Wefer, Gerold, editor; *et al.*), Springer-Verlag, Berlin, Federal Republic of Germany, p. 457-471, 43 ref., 2002. *Meeting:* 1st Hanse conference on Past climate and its significance for human history in NW Europe; the last 10,000 years, Oct. 9-14, 1999, Delmenhorst, Federal Republic of Germany.

57000053

Morison, J. H. (University of Washington, Applied Physics Laboratory, Seattle, WA); Aagaard, K.; Falkner, K. K.; Hatakeyama, K.; Moritz, R.; Overland, J. E.; Perovich, D.; Shimada, K.; Steele, M.; Takizawa, T. and Woodgate, R.

North Pole environmental observatory delivers early results: **Eos, Transactions, American Geophysical Union**, 83(33), p. 357, 360-361, illus. incl. geol. sketch map, block diag., 7 ref., August 13, 2002.

57000054

McClung, D. M. (University of British Columbia, Department of Geography, Vancouver, BC, Canada).

The elements of applied avalanche forecasting; Part I, The human issues: **Natural Hazards**, 26(2), p. 111-129, illus. incl. 1 table, 29 ref., June 2002. Includes appendices.

57000055

McClung, D. M. (University of British Columbia, Department of Geography, Vancouver, BC, Canada).

The elements of applied avalanche forecasting; Part II, The physical issues and the rules of applied avalanche forecasting: **Natural Hazards**, 26(2), p. 131-146, illus., 21 ref., June 2002. Includes appendices.

57000056

Rhoades, D. A. (Institute of Geological and Nuclear Sciences, Lower Hutt, New Zealand); Dowrick, D. J. and Wilson, C. J. N.

Volcanic hazard in New Zealand; scaling and attenuation relations for tephra fall deposits from Taupo Volcano: **Natural Hazards**, 26(2), p. 147-174, illus. incl. 4 tables, 32 ref., June 2002.

57000058

Newitt, L. R. (Geological Survey of Canada, Natural Resources Canada, Ottawa, ON, Canada); Mandea, M.; McKee, L. A. and Orgeval, J. J.

Recent acceleration of the North magnetic pole linked to magnetic jerks: **Eos, Transactions, American Geophysical Union**, 83(35), p. 381, 388-389, illus. incl. 1 table, geol. sketch maps, 9 ref., August 27, 2002.

57000059

Liedtke, H. (Ruhr-Univ. Bochum, Geogr. Inst., Bochum, Federal Republic of Germany).

The landforms of the north of the Federal Republic of Germany and their development: *in Landforms and landform evolution in West Germany* (Ahnert, F., editor), **Catena Supplement**, 15, p. 11-24, sects., 2 tables, geol. sketch map, 19 ref., 1989. *Meeting*: 2nd international conference on Geomorphology, Sept. 3-9, 1989, Frankfurt, Federal Republic of Germany.

57000060

Hagedorn, J. (Univ. Göttingen, Geogr. Inst., Gottingen, Federal Republic of Germany).

Glacial and periglacial morphology of the Lüneburger Heath: *in Landforms and landform evolution in West Germany* (Ahnert, F., editor), **Catena Supplement**, 15, p. 85-94, geol. sketch map, 45 ref., 1989. *Meeting*: 2nd international conference on Geomorphology, Sept. 3-9, 1989, Frankfurt, Federal Republic of Germany.

57000061

Beck, N. (Erziehungswiss. Hochsch. Rheinland-Pfalz, Sem. Geogr., Koblenz, Federal Republic of Germany).

Periglacial glaci (pediment) generations at the western margin of the Rhine Hessian Plateau: *in Landforms and landform evolution in West Germany* (Ahnert, F., editor), **Catena Supplement**, 15, p. 189-197, illus. incl. sects., geol. sketch maps, 13 ref., 1989. *Meeting*: 2nd international conference on Geomorphology, Sept. 3-9, 1989, Frankfurt, Federal Republic of Germany.

57000062

Habbe, K. A. (Univ. Erlangen-Nürnberg, Inst. Geogr., Erlangen, Federal Republic of Germany) and Rögner, K.

The Pleistocene Iller Glaciers and their outwash fields: *in Landforms and landform evolution in West Germany* (Ahnert, F., editor), **Catena Supplement**, 15, p. 311-328, sect., geol. sketch maps, 55 ref., 1989. *Meeting*: 2nd international conference on Geomorphology, Sept. 3-9, 1989, Frankfurt, Federal Republic of Germany.

57000063

Kirsten, Werner (An der Maar 5, Niederzier, Federal Republic of Germany).

The greenhouse effect and its impact on the biosphere: **Applied Geography and Development**, 43, p. 87-95, illus. incl. 4 tables, 1994.

57000064

Roberts, D. (University of Tasmania, Institute of Antarctic and Southern Ocean Studies, Hobart, Australia); McMinn, A.; Johnston, N.; Gore, D. B.; Melles, M. and Cremer, H.

An analysis of the limnology and sedimentary diatom flora of fourteen lakes and ponds from the Windmill Islands, East Antarctic: **Antarctic Science**, 13(4), p. 410-419, illus. incl. 4 tables, sketch map, 40 ref., December 2001.

57000065

Hirooka, T. (Kyushu University, Department of Earth and Planetary Sciences, Fukuoka, Japan); Yoshikawa, M.; Miyahara, S. and Kayahara, T.

Radiative and dynamical impacts of Arctic and Antarctic ozone holes; general circulation model experiments: *in* The Antarctic and Arctic middle atmospheres; their differences and similarities; proceedings of the C2.4 symposium of COSPAR Scientific Commission C which was held during the Thirty-second COSPAR scientific assembly (Chakrabarty, D. K., editor), **Advances in Space Research**, 24(12), p. 1637-1640, illus. incl. geol. sketch maps, 9 ref., 1999. *Meeting:* July 12-19, 1998, Nagoya, Japan.

57000066

Krivolutsky, A. A. (Central Aerological Observatory, Moscow, Russian Federation).

Air depression over South Pole during Antarctic spring and its possible influence on ozone content in this region: *in* The Antarctic and Arctic middle atmospheres; their differences and similarities; proceedings of the C2.4 symposium of COSPAR Scientific Commission C which was held during the Thirty-second COSPAR scientific assembly (Chakrabarty, D. K., editor), **Advances in Space Research**, 24(12), p. 1627-1630, illus., 11 ref., 1999. *Meeting:* July 12-19, 1998, Nagoya, Japan.

57000067

Kane, R. P. (Instituto Nacional de Pesquisas Espaciais, San Paulo, Brazil) and Casiccia, C.

Twisting, turning and pulsation of the Antarctic ozone hole, as revealed by TOMS data: **Mausam**, 52(2), p. 397-412, illus. incl. sketch map, 70 ref., April 2001.

57000068

Codling, Rosamunde.

Aspects of environmental planning in the Antarctic: **Journal of Environmental Planning and Management (Print)**, 44(1), p. 129-141, tables, 2001.

57000069

Netherlands, Government of.

Rules for the protection of the Antarctic environment implementing the Protocol on Environmental Protection to the Antarctic Treaty (Protection of Antarctica Act): Government of the Netherlands, The Hague, Netherlands, 18 p., 1998.

57000070

Netherlands, Government of.

Information on Dutch legislation implementing the protocol: Government of the Netherlands, The Hague, Netherlands, 7 p., 1998.

57000071

Goldsworthy, Lyn.

ASOC report on the Ninth meeting of the Group of Specialists on Environmental Affairs and Conservation (GOSEAC): **Antarctic News and Views**, 1, p. 12-14, 1998.

57000072

Mills, William James, compiler.

Antarctic earth science monographs in the library of the Scott Polar Research Institute: **Occasional Bibliography - Scott Polar Research Institute Library**, 43, 43 p., 1998.

57000073

Tiwari, V. S. (Indian Meteorological Department, New Delhi, India).

Measurement of ozone at Maitri, Antarctica: **Mausam**, 50(2), p. 203-210 (Hindi sum.), illus., 17 ref., April 1999.

57000093

Chepurina, M. A. (Arctic and Antarctic Research Institute, Saint Petersburg, Russian Federation) and Bessonov, V. I.

The Weddell water opening as an indicator of global climate: **Doklady Earth Sciences**, 370(1), p. 100-101, table, 10 ref., February 2000.

57000094

Romanovskii, N. N. (Moskovskii Gosudarstvenny Universitet, Geologicheskii Fakul'tet, Moscow, Russian Federation); Khubberten, G. V.; Kholodov, A. L. and Tipenko, G. S.

Sostoianie tolshch mnogoletnemerzlykh porod na shel'fe morei vostochnogo sektora Rossiiskoi Arktiki [State of offshore permafrost on shelves of eastern sector of Russian Arctic seas]: **Kriosfera Zemli**, 5(2), p. 3-10 (English sum.), illus. incl. sect., sketch map, 22 ref., June 2001.

57000095

Pavlov, A. V. (Rossiiskaia Akademii Nauk, Sibirskoe Otdelenie, Institut Kriosfery Zemli, Tyumen, Russian Federation) and Moskalenko, N. G.

Termicheskii rezhim pochvy na severe Zapadnoi Sibiri [Thermal regime of soil in northern West Siberia]: **Kriosfera Zemli**, 5(2), p. 11-19 (English sum.), illus. incl. 4 tables, sketch map, 12 ref., June 2001.

57000096

Mikhailov, V. M. (Rossiiskaia Akademii Nauk, Sibirskoe Otdelenie, Institut Merzlotovedeniia im. P.I. Mel'nikova, Severo-Vostochnaia Nauchno-Issledovatel'skaia Merzlotnaia Stantsiia, Magadan, Russian Federation) and Bantsekina, T. V.

Gruntovo-filtratsionnyy talik v kontinental'noi del'te reki Buiunda, Seimchano-Buiundinskaia vpadina [Ground-filtration talik in continental delta of Buiunda River, Seimchan-Buiundinskaia Basin]: **Kriosfera Zemli**, 5(2), p. 20-28 (English sum.), illus. incl. sketch map, 7 ref., June 2001.

57000097

Gorelik, Ia. B. (Rossiiskaia Akademii Nauk, Sibirskoe Otdelenie, Institut Kriosfery Zemli, Tyumen, Russian Federation); Kolenin, V. S. and Reshetnikov, A. K.

Besstrukturnoe opisanie protsessov teplomassoperenos i deformirovaniia merzlykh gruntov [Nonstructural approach to deformation, mass and heat transfer process descriptions in frozen soil]: **Kriosfera Zemli**, 5(2), p. 29-42 (English sum.), illus., 25 ref., June 2001.

57000098

Shavlov, A. V. (Rossiiskaia Akademii Nauk, Sibirskoe Otdelenie, Institut Kriosfery Zemli, Tyumen, Russian Federation) and Plotnikov, S. N.

Vklad razmorazhivaniia postupatel'nykh stepenei svobody atomov v teplotu plavlenii prostykh veshchestv [Contribution of thawing of gradual degrees of atomic freedom in melting temperature of simple substances]: **Kriosfera Zemli**, 5(2), p. 43-47 (English sum.), illus. incl. table, 10 ref., June 2001.

57000099

Grechichshev, S. E. (Rossiiskaia Akademii Nauk, Sibirskoe Otdelenie, Institut Kriosfery zemli, Tyumen, Russian Federation); Instanes, A.; Sheshin, Iu. B.; Pavlov, A. V. and Grechishcheva, O. V.

Laboratornye issledovaniia zamerzania neftezagryaznennykh dispersnykh gruntov i model' ikh struktury pri otritsatel'noi temperatuire [Laboratory studies of freezing of petroleum-contaminated fine-grained soils and the structure model under negative temperature]: **Kriosfera Zemli**, 5(2), p. 48-53 (English sum.), illus. incl. table, 6 ref., June 2001.

57000100

Fotiev, S. M. (Rossiiskaia Akademii Nauk, Sibirskoe Otdelenie, Institut Kriosfery Zemli, Tyumen, Russian Federation).

Vremennaia gruntovaia plotina v doline reki Khanmei na shirote Polyarnogo kruga [Temporary earth dam in Khanmei River valley in polar latitude]: **Kriosfera Zemli**, 5(2), p. 54-67 (English sum.), illus. incl. 2 tables, sketch maps, 1 ref., June 2001.

57000101

Konstantinov, I. P. (Rossiiskaia Akademii Nauk, Sibirskoe Otdelenie, Institut Merzlotovedeniia im. P.I. Mel'nikova, Iakutsk, Russian Federation) and Gur'ianov, I. E.

Raschetnaia otsenka usilii i napryazhenii na deformirovannykh uchastkakh gazoprovoda Mastakh-Iakutsk [Calculation of strain and stress in deformed sections of Mastakh-Iakutsk gas pipeline]: **Kriosfera Zemli**, 5(2), p. 68-75 (English sum.), illus. incl. 3 tables, 2 ref., June 2001.

57000102

Sokratov, S. A. (Moskovskii Gosudarstvenny Universitet, Geograficheskii Fakul'tet, Nauchno-Issledovatel'skaia Laboratoriia Snezhnykh Lavin i Selei, Moscow, Russian Federation); Golubev, V. N. and Barri, R. G.

Vlianie klimaticheskikh kolebanii na teploizoliruiushchuiu rol' snezhnogo pokrova i termicheskii rezhim gruntov [Influence of climate variations on thermal insulating effect of snow cover and on thermal regime in underlying soil]: **Kriosfera Zemli**, 5(2), p. 83-91 (English sum.), illus., 40 ref., June 2001.

57000103

Kawai, Motonari (University of Tsukuba, Ibaraki, Japan); Simodaira, Yuki and Tase, Norio.

Behavior of ammonium sulfate applied to snowcover and its effects on snow meltwater: **Journal of Japanese Association of Hydrological Sciences**, 30(4), p. 137-147, (Japanese) (English sum.), illus., 11 ref., November 2000.

57000104

Hirasawa, Naohiko (National Institute of Polar Research, Tokyo, Japan).

Errors in wind direction data at Dome Fuji Station, and corrections: **Nankyoku Shiryo = Antarctic Record**, 44(3), p. 249-264, (Japanese) (English sum.), illus. incl. 3 tables, November 2000.

57000105

Ohtani, Shuji (Shimane University, Faculty of Education, Matsue, Japan); Suyama, Kousuke and Kanda, Hiroshi.

Environmental monitoring by means of soil algae and microorganisms in the vicinity of Syowa Station: **Nankyoku Shiryo = Antarctic Record**, 44(3), p. 265-276, (Japanese) (English sum.), illus. incl. 1 table, 9 ref., November 2000.

57000106

Ushio, Shuki (National Institute of Polar Research, Tokyo, Japan).

Report of "Workshop on variability of sea ice and ocean in polar regions": **Nankyoku Shiryo = Antarctic Record**, 44(3), p. 277-281, (Japanese) (English sum.), November 2000.

57000107

Onishi, Hiroji (Hokkaido University, Graduate School of Fisheries Science, Hokkaido, Japan).

Spatial and temporal variability in a vertical section across the Alaskan Stream and Subarctic Current: **Journal of Oceanography**, 57(1), p. 79-91, illus. incl. 1 table, sketch map, 26 ref., February 2001.

57000108

Lei Xiaoyun (Xinjiang Agriculture University, Wulumuqi, China); Zhao Yiqin and Fan Cuiling.

Application of annual runoff prediction with time series combining model on ice stream: **Shuiwen = Hydrology**, 21(3), p. 11-13, (Chinese) (English sum.), illus. incl. 3 tables, 4 ref., June 25, 2001.

57000109

Cui Taichang (Shanxi Bureau of Hydrology and Water Resources, Shanxi, China).

The estimation of river ice-storage in ice period: **Shuiwen = Hydrology**, 21(3), p. 34-36, (Chinese), illus., 3 ref., June 25, 2001.

57000110

Guan Zhicheng (Northeast China Survey, Design & Research Institute, Changchun, China); Qi Jing; Li Qingji and Liu Zhirong.

Watershed runoff simulation in cold region: **Shuiwen = Hydrology**, 21(2), p. 31-34, 14, (Chinese) (English sum.), illus., 3 ref., April 25, 2001.

57000111

Ma Desheng (Xinglicheng Reservoir Management Bureau, Jilin, China); Wang Zhenbao and Ma Tao.

Brief introduction of peg type ice thickness detector through ice-free hole: **Shuiwen = Hydrology**, 21(2), p. 61-62, (Chinese), illus., April 25, 2001.

57000112

Bai Shan (National Center for Marine Environment Forecasts, Beijing, China); Liu Qinzheng; Wu Huiding and Wang Yongliang.

Relation of sea ice conditions with climate change in the Bohai Sea and the northern Yellow Sea: **Haiyang Xuebao = Acta Oceanologica Sinica**, 23(5), p. 33-41, (Chinese) (English sum.), illus. incl. 2 tables, 14 ref., 2001.

57000113

Lu Bing (State Oceanic Administration, Second Institute of Oceanography, Hangzhou, China); Chen Ronghua; Wang Zipan; Chen Jianfang and Liu Zhensheng.

Long-chain alkenones and their U_{37}^k values application study on the paleo-temperature of the Arctic Ocean: **Haiyang Xuebao = Acta Oceanologica Sinica**, 23(5), p. 49-57, (Chinese) (English sum.), illus. incl. 1 table, 31 ref., 2001.

57000114

Xia Dongxing (State Oceanic Administration, First Institute of Oceanography, Qingdao, China) and Liu Zhengxia.

Tracing the Yangtze River's flowing route entering the sea during the last glacial maximum: **Haiyang Xuebao = Acta Oceanologica Sinica**, 23(5), p. 87-94, (Chinese) (English sum.), illus. incl. 1 table, 13 ref., 2001.

57000115

Maljanen, Marja (University of Kuopio, Department of Environmental Sciences, Kuopio, Finland); Martikainen, Pertti J.; Aaltonen, Heikki and Silvola, Jouko.

Short-term variation in fluxes of carbon dioxide, nitrous oxide and methane in cultivated and forested organic boreal soils: **Soil Biology & Biochemistry**, 34(5), p. 577-584, illus. incl. 2 tables, 35 ref., May 2002.

57000116

Judd, A. G. (University of Sunderland, Applied Geology, Sunderland, United Kingdom); Hovland, M.; Dimitrov, L. I.; Gil, S. García and Jukes, V.

The geological methane budget at continental margins and its influence on climate change: **Geofluids**, 2(2), p. 109-126, illus. incl. 4 tables, 132 ref., May 2002.

57000117

Bobrov, P. P. (Omsk Pedagogic University, Russian Federation) and Galeev, O. V.

Dynamics of radiobrightness temperature of soils with different humus content: **Mapping Sciences and Remote Sensing**, 39(1), p. 10-18, illus. incl. 2 tables, 7 ref., March 2002.

57000118

Shalina, Ye. V. (Nansen International Environmental and Remote Sensing Center, Saint Petersburg, Russian Federation) and Johannessen, O. M.

Detection of ice cover change in Russia's Arctic seas from passive microwave radiometry: **Mapping Sciences and Remote Sensing**, 39(1), p. 19-30, illus., 29 ref., March 2002.

57000119

Bel'chanskiy, G. I. (Russian Academy of Sciences, A. N. Severtsov Institute of Problems in Ecology and Evolution, Russian Federation); Yeremeyev, V. A.; Mordvintsev, I. N. and Platonov, N. G.

Comparative analysis of seasonal estimates of sea ice concentrations determined using the Okean-01, SSM/I, and RADARSAT satellite data: **Mapping Sciences and Remote Sensing**, 39(1), p. 56-65, illus. incl. 3 tables, 19 ref., March 2002.

57000120

Demchenko, Pavel Feliksovich (Rossiiskaia Akademii Nauk, Institut Fiziki Atmosfery im. A. M. Obykhova, Russian Federation); Velichko, Andrei Alekseevich; Golitsyn, Georgii Sergeevich; Eliseev, Aleksei Viktorovich and Nechaev, Vladimir Pavlovich.

Sud'ba vechnoi merzloty; vzglyad iz proshlogo v budushchee [Fate of permafrost; glance from past into future]: **Priroda**, 2001(11), p. 43-49 (English sum.), illus., 5 ref., 2001.

57000121

Boiarskii, P. V. (Ministerstvo Kul'tury Rossiiskoi Federatsii, Nauchno-Issledovatel'skii Institut Kul'turnogo i Prirodnogo Naslediia im. D. S. Likhacheva, Russian Federation) and Glazov, M. V.
Svyatilishcha Vaigacha [Vaigach sanctuaries]: **Priroda**, 2001(7), p. 32-43 (English sum.), illus., 9 ref., 2001.

57000122

Otani, Shinji (San-in Rosai Hospital, Department of Surgery, Yonago, Japan) and Kusagaya, Hiromitsu.

Health survey of wintering members of the 40th Japanese Antarctic Research Expedition: **Nankyoku Shiryo = Antarctic Record**, 46(1), p. 34-39, (Japanese) (English sum.), illus. incl. 1 table, 6 ref., March 2002.

57000123

Grab, Stefan (University of the Witwatersrand, School of Geography, Archaeology and Environmental Studies, Witwatersrand, South Africa).

Characteristics and palaeoenvironmental significance of relict sorted patterned ground, Drakensberg Plateau, Southern Africa: **Quaternary Science Reviews**, 21(14-15), p. 1729-1744, illus. incl. 2 tables, sketch map, 93 ref., August 2002.

57000124

Vermeersen, L. L. A. (Delft University of Technology, Faculty of Aerospace Engineering, Delft, Netherlands); Sabadini, R. and Di Donato, G.

Glacially-driven secular rotational variations of the Earth: *in* Seventh winter seminar Sopron (WSS '01) "Geodynamics" (Vero, J., editor), **Acta Geodaetica et Geophysica Hungarica**, 37(1), p. 93-101, illus., 12 ref., 2002. *Meeting:* Seventh international winter seminar on Geodynamics, Feb. 20-23, 2001, Sopron, Hungary.

57000125

Frei, Allan (Hunter College, Department of Geography, New York, NY); Armstrong, Richard L.; Clark, Martyn P. and Serreze, Mark C.

Catskill Mountain water resources; vulnerability, hydroclimatology, and climate-change sensitivity: **Annals of the Association of American Geographers**, 92(2), p. 203-224, illus. incl. 5 tables, sketch map, 64 ref., June 2002.

57000126

Waple, Anne M. (NOAA, National Climatic Data Center, Asheville, NC); Lawrimore, J. H.; Halpert, M. S.; Bell, G. D.; Higgins, W.; Lyon, B.; Menne, M. J.; Gleason, K. L.; Schnell, R. C.; Christy, J. R.; Thiaw, W.; Wright, W. J.; Salinger, M. J.; Alexander, L.; Stone, R. S. and Camargo, S. J.

Climate assessment for 2001: **Bulletin of the American Meteorological Society**, 83(6), p. S1-S62, illus., 62 ref., June 2002. Includes appendix.

57000127

Collins, Matthew (Hadley Centre for Climate Prediction and Research, Bracknell, United Kingdom); Osborn, Timothy J.; Tett, Simon F. B.; Briffa, Keith R. and Schweingruber, Fritz H.

A comparison of the variability of a climate model with paleotemperature estimates from a network of tree-ring densities: **Journal of Climate**, 15(13), p. 1497-1515, illus. incl. 4 tables, sketch maps, 33 ref., July 1, 2002. Includes appendix.

57000128

Holloway, Greg (Institute of Ocean Sciences, Sidney, BC, Canada) and Sou, Tessa.
Has Arctic sea ice rapidly thinned?: **Journal of Climate**, 15(13), p. 1691-1701, illus. incl. 1 table, sketch maps, 37 ref., July 1, 2002. Includes appendix.

57000129

Overland, James E. (NOAA, Pacific Marine Environmental Laboratory, Seattle, WA); Wang, Muyin and Bond, Nicholas A.
Recent temperature changes in the western Arctic during spring: **Journal of Climate**, 15(13), p. 1702-1716, illus. incl. 2 tables, sketch maps, 21 ref., July 1, 2002. Includes appendix.

57000130

Hawkins, Timothy W. (Arizona State University, Department of Geography, Tempe, AZ); Ellis, Andrew W.; Skindlov, Jon A. and Reigle, Dallas.
Intra-annual analysis of the North American snow cover-monsoon teleconnection; seasonal forecasting utility: **Journal of Climate**, 15(13), p. 1743-1753, illus. incl. 1 table, sketch maps, 26 ref., July 1, 2002.

57000131

Schwartz, Robert M. (Ball State University, Department of Geography, Muncie, IN) and Schmidlin, Thomas W.
Climatology of blizzards in the conterminous United States, 1959-2000: **Journal of Climate**, 15(13), p. 1765-1772, illus. incl. sketch maps, 40 ref., July 1, 2002.

57000133

Huttunen, Jari T. (University of Kuopio, Department of Environmental Sciences, Kuopio, Finland); Vaisanen, Tero S.; Hellsten, Seppo K.; Heikkinen, Mirja; Nykanen, Hannu; Jungner, Hogne; Niskanen, Arto; Virtanen, Markku O.; Lindqvist, Ossi V.; Nenonen, Olli S. and Martikainen, Pertti J.
Fluxes of CH₄, CO₂, and N₂O in hydroelectric reservoirs Lokka and Porttipahta in the northern boreal zone in Finland: **Global Biogeochemical Cycles**, 16(1), 17 p., illus. incl. 9 tables, sketch map, 61 ref., March 2002.

57000134

Janner, A. (University of Nijmegen, Institute for Theoretical Physics, Nijmegen, Netherlands).
Morphological possibilities in general crystallography; snow crystals: **Acta Crystallographica, Section A: Foundations of Crystallography**, 58, Part 4, p. 334-345, illus., 7 ref., July 2002. Includes appendix.

57000135

Renkas, Yaroslav.
With the Arctic forever: **Science in Russia**, 2002(4), p. 89-93, illus., August 2002.

57000136

Nelson, F. E. (University of Delaware, Department of Geography and Center for Climatic Research, Newark, DE); Anisimov, O. A. and Shiklomanov, N. I.
Climate change and hazard zonation in the Circum-Arctic permafrost regions: **Natural Hazards**, 26(3), p. 230-225, illus., 107 ref., July 2002.

57000137

Tulk, C. A. (Oak Ridge National Laboratory, Oak Ridge, TN); Benmore, C. J.; Urquidi, J.; Klug, D. D.; Neufeind, J.; Tomberli, B. and Egelstaff, P. A.

Structural studies of several distinct metastable forms of amorphous ice: **Science**, 297(5585), p. 1320-1323, illus., 26 ref., August 23, 2002.

57000138

Brown, Kathryn.

Surviving the long nights; how plants keep their cool: **Science**, 297(5585), p. 1267-1268, August 23, 2002.

57000139

Berger, A. (Université Catholique de Louvain, Institut d'Astronomie et de Géophysique, Louvain-la-Neuve, Belgium) and Loutre, M. F.

An exceptionally long interglacial ahead?: **Science**, 297(5585), p. 1287-1288, illus., 19 ref., August 23, 2002.

57000140

Soper, Alan K. (Rutherford Appleton Laboratory, ISIS Facility, Didcot, United Kingdom).

Water and ice: **Science**, 297(5585), p. 1288-1289, illus., 7 ref., August 23, 2002.

<http://www.sciencemag.org/cgi/content/full/297/5585/1288>

57000141

Stenseth, Nils C. (University of Oslo, Department of Biology, Oslo, Norway); Mysterud, Atle; Ottersen, Geir; Hurrell, James W.; Chan, Kung-Sik and Lima, Mauricio.

Ecological effects of climate fluctuations: **Science**, 297(5585), p. 1292-1296, illus., 69 ref., August 23, 2002.

57000142

Thomson, Stuart N. (Ruhr-Universität Bochum, Institut für Geologie, Mineralogie, und Geophysik, Bochum, Federal Republic of Germany).

Late Cenozoic geomorphic and tectonic evolution of the Patagonian Andes between latitudes 42°S and 46°S; an appraisal based on fission-track results from the transpressional intra-arc Liquiñe-Ofqui fault zone: **Geological Society of America Bulletin**, 114(9), p. 1159-1173, illus. incl. block diag., geol. sketch map, 80 ref., September 2002. With GSA Data Repository Item 2002113.

<http://www.gsjournals.org/gsaonline/?request=get-abstract&issn=0091-7613&volume=0114&issue=09&page=01159>

57000143

Marshall, Jim D. (University of Liverpool, Department of Earth Sciences, Liverpool, United Kingdom); Jones, Richard T.; Crowley, Stephen F.; Oldfield, Frank; Nash, Samantha and Bedford, Alan.

A high resolution late-glacial isotopic record from Hawes Water, Northwest England; climatic oscillations, calibration and comparison of palaeotemperature proxies: **Palaeogeography, Palaeoclimatology, Palaeoecology**, 185(1-2), p. 25-40, illus. incl. 3 tables, sketch map, 42 ref., September 1, 2002.

57000144

Yamada, Katsura (University of Tsukuba, Institute of Geoscience, Tsukuba, Japan); Irizuki, Toshiaki and Tanaka, Yuichiro.

Cyclic sea-level changes based on fossil ostracode faunas from the upper Pliocene Sasaoka Formation, Akita Prefecture, Northeast Japan: **Palaeogeography, Palaeoclimatology, Palaeoecology**, 185(1-2), p. 115-132, illus. incl. sects., 1 plate, 2 tables, geol. sketch map, 41 ref., September 1, 2002.

57000145

Heslop, D. (Fort Hoofddijk Paleomagnetic Laboratory, Utrecht, Netherlands); Dekkers, M. J. and Langereis, C. G.

Timing and structure of the mid-Pleistocene transition; records from the loess deposits of northern China: **Palaeogeography, Palaeoclimatology, Palaeoecology**, 185(1-2), p. 133-143, illus. incl. sketch map, 50 ref., September 1, 2002.

57000146

Marr, Jeffrey G. (University of Minnesota, Saint Anthony Falls Laboratory, Minneapolis, MN); Elverhoi, Anders; Harbitz, Carl; Imran, Jasim and Harff, Peter.

Numerical simulation of mud-rich subaqueous debris flows on the glacially active margins of the Svalbard-Barents Sea: **Marine Geology**, 188(3-4), p. 351-364, illus. incl. 3 tables, sketch map, 48 ref., August 30, 2002.

57000147

Harrison, Stephan (Coventry University, Centre for Quaternary Science, Coventry, United Kingdom).

Lithological variability of Quaternary slope deposits in the Cheviot Hills, UK: **Proceedings of the Geologists' Association**, 113, Part 2, p. 121-138, illus. incl. 1 table, sketch maps, 45 ref., April 2002.

57000148

Shakesby, Richard A. (University of Wales Swansea, Department of Geography, Swansea, United Kingdom) and Matthews, John A.

Sieve deposition by debris flow on a permeable substrate, Leirdalen, Norway: **Earth Surface Processes and Landforms**, 27(10), p. 1031-1041, illus. incl. sects., 1 table, geol. sketch maps, 50 ref., September 2002. Jotunheimen Res. Exped. Contrib. No. 148.

57000149

Lamoureux, Scott (Queen's University, Department of Geography, Kingston, ON, Canada).

Temporal patterns of suspended sediment yield following moderate to extreme hydrological events recorded in varved lacustrine sediments: **Earth Surface Processes and Landforms**, 27(10), p. 1107-1124, illus. incl. 2 tables, geol. sketch maps, 40 ref., September 2002. Polar Continental Shelf Project (PSCP) Contrib. No. 018-01.

57000150

Arnaud, Emmanuelle (University of Guelph, Department of Land Resource Science, Guelph, ON, Canada) and Eyles, Carolyn H.

Glacial influence on Neoproterozoic sedimentation; the Smalfjord Formation, Northern Norway: **Sedimentology**, 49(4), p. 765-788, illus. incl. sects., sketch map, 74 ref., August 2002.

57000151

Watson, Lee R. (U. S. Geological Survey, Indianapolis, IN); Bayless, E. Randall; Buszka, Paul M. and Wilson, John T.

Effects of highway-deicer application on ground-water quality in a part of the Calumet Aquifer, northwestern Indiana: **Water-Resources Investigations - U. S. Geological Survey**, Rep. No. WRI 01-4260, 148 p., illus. incl. sects., 15 tables, sketch map, 68 ref., 2002. Available from: U. S. Geol. Surv., Denver, CO, United States. (Prepared in cooperation with the Indiana Department of Transportation).

57000152

Krimmel, Robert M. (U. S. Geological Survey).

Water, ice, and meteorological measurements at South Cascade Glacier, Washington, 2000-01 balance years: **Water-Resources Investigations - U. S. Geological Survey**, Rep. No. WRI 02-4165, 63 p., illus. incl. 23 tables, sketch map, 21 ref., 2002. WWW. Accessed on Sept. 23, 2002.

<http://water.usgs.gov/pubs/wri/wri024165/>

57000154

Wright, John H. (Raytheon Polar Services, Centennial, CO); Walsh, Michael R. and Jensen, Eivind B.

Snow tunneling at the South Pole: **Mining Engineering**, 54(9), p. 17-26, September 2002.
CRREL Report No: ERDC/CRREL MP-02-5923

57000155

Lundqvist, Jan (Univ. Stockholm, Dep. Quater. Res., Stockholm, Sweden).

The late-glacial development of the upper Klaralven Valley, Sweden: **GFF**, 118(1), p. 49-62, illus. incl. sect., geol. sketch maps, 26 ref., 1996.

57000156

Snowball, Ian F. (Univ. Lund, Dept. Quaternary Geol., Lund, Sweden).

Holocene environmental change in the Abisko region of northern Sweden recorded by the mineral magnetic stratigraphy of lake sediments: **GFF**, 118(1), p. 9-17, sketch map, 33 ref., 1996.

57000157

Brankovic, C. (ECMWF, Reading, United Kingdom) and Molteni, F.

Sensitivity of the ECMWF model northern winter climate to model formulation: **Climate Dynamics**, 13(1), p. 75-101, 2 tables, geol. sketch maps, 32 ref., 1996.

57000158

Douville, H. (Météo-France, Toulouse, France) and Royer, J. F.

Influence of the temperate and boreal forests on the Northern Hemisphere climate in the Météo-France climate model: **Climate Dynamics**, 13(1), p. 57-74, 1 table, geol. sketch maps, 58 ref., 1996.

57000159

Andersson, Gunnar (Lund University, Department of Quaternary Geology, Lund, Sweden).

Glacial dynamics during the deglaciation of the Bolmen area, SW Sweden: **GFF**, 119(3), p. 207-212, sects., geol. sketch maps, 41 ref., 1997.

57000160

Hoffman, N. (WNS Geoscience, Eltham, Victoria, Australia).

Volatiles and ices on Mars [abstr.]: *in* The Fifth international conference on Mars, **LPI Contribution**, Rep. No. 972, abstract 6002, illus., 6 ref., 1999. *Meeting:* July 19-24, 1999, Pasadena, CA.

57000161

Hoffman, N. (WNS Geoscience, Eltham, Victoria, Australia).

Pressure and temperature evolution of Mars' surface [abstr.]: *in* The Fifth international conference on Mars, **LPI Contribution**, Rep. No. 972, abstract 6003, illus., 4 ref., 1999. *Meeting:* July 19-24, 1999, Pasadena, CA.

57000162

Hoffman, N. (WNS Geoscience, Eltham, Victoria, Australia).

Ice and layering on early and modern Mars [abstr.]: *in* The Fifth international conference on Mars, **LPI Contribution**, Rep. No. 972, abstract 6004, illus., 1 ref., 1999. *Meeting:* July 19-24, 1999, Pasadena, CA.

57000163

Hoffman, N. (WNS GeoScience, Eltham, Victoria, Australia).

The white rock on Mars compared to terrestrial salt diapirs and glaciers [abstr.]: *in* The Fifth international conference on Mars, **LPI Contribution**, Rep. No. 972, abstract 6008, illus., 3 ref., 1999. *Meeting:* July 19-24, 1999, Pasadena, CA.

57000164

Ozorovich, Y. R. (Russian Academy of Sciences, Space Research Institute, Moscow, Russian Federation); Linkin, V. M. and Smythe, W. D.

MARS electromagnetic sounding experiment; MARSES [abstr.]: *in* The Fifth international conference on Mars, **LPI Contribution**, Rep. No. 972, abstract 6014, 6 ref., 1999. *Meeting:* July 19-24, 1999, Pasadena, CA.

57000165

Bell, F., III (Cornell University, Department of Astronomy, Ithaca, NY).

Nature and origin of Martian surface materials [abstr.]: *in* The Fifth international conference on Mars, **LPI Contribution**, Rep. No. 972, abstract 6017, illus. incl. 2 tables, 17 ref., 1999. *Meeting:* July 19-24, 1999, Pasadena, CA.

57000166

Haberle, R. M. (NASA, Ames Research Center, Moffett Field, CA).

Modeling the atmospheric structure and dynamics of the Martian atmosphere [abstr.]: *in* The Fifth international conference on Mars, **LPI Contribution**, Rep. No. 972, abstract 6018, 13 ref., 1999. *Meeting:* July 19-24, 1999, Pasadena, CA.

57000167

Richardson, M. I. (California Institute of Technology, Pasadena, CA).

The water cycle; dynamics of reservoir exchange, transport, and integrated behaviour [abstr.]: *in* The Fifth international conference on Mars, **LPI Contribution**, Rep. No. 972, abstract 6021, illus., 28 ref., 1999. *Meeting:* July 19-24, 1999, Pasadena, CA.

57000168

Yoshikawa, K. (University of Alaska Fairbanks, Water and Environmental Research Center, Fairbanks, AK) and Ishimaru, S.

Rock textures and the coating analogues at the Pathfinder landing site and Thiel Mountains, inland Antarctica [abstr.]: *in* The Fifth international conference on Mars, **LPI Contribution**, Rep. No. 972, abstract 6058, illus., 4 ref., 1999. *Meeting:* July 19-24, 1999, Pasadena, CA.

57000169

Nolin, A. W. (University of Colorado, Cooperative Institute for Research in Environmental Sciences, Boulder, CO) and Farrand, William H.

Multispectral mapping of the Martian polar ice caps [abstr.]: *in* The Fifth international conference on Mars, **LPI Contribution**, Rep. No. 972, abstract 6071, illus., 6 ref., 1999. *Meeting:* July 19-24, 1999, Pasadena, CA.

57000170

Costard, F. (Laboratoire de Géologie Dynamique de la Terre et des Planètes, Orsay, France) and Kargel, J.

New evidences for ice rich sediments on the northern plains from MGS data [abstr.]: *in* The Fifth international conference on Mars, **LPI Contribution**, Rep. No. 972, abstract 6088, illus., 11 ref., 1999. *Meeting:* July 19-24, 1999, Pasadena, CA.

57000171

Hansen, G. B. (University of Hawaii, Hawaii Institute of Geophysics and Planetology, Honolulu, HI).

Composition, microphysical state, and energy balance of the Mars seasonal polar caps from MGS [abstr.]: *in* The Fifth international conference on Mars, **LPI Contribution**, Rep. No. 972, abstract 6090, illus., 11 ref., 1999. *Meeting:* July 19-24, 1999, Pasadena, CA.

57000172

Bass, Deborah S. (Southwest Research Institute, Instrumentation and Space Research Division, San Antonio, TX) and Paige, David A.

Evidence for the possible accumulation of ice at the North Pole of Mars: *in* The Fifth international conference on Mars, **LPI Contribution**, Rep. No. 972, abstract 6095, illus., 3 ref., 1999. *Meeting:* July 19-24, 1999, Pasadena, CA.

57000173

Tsapin, A. I. (Jet Propulsion Laboratory, Pasadena, CA); McDonald, Gene D.; Andrews, M.; Bhartia, R.; Douglas, S. and Gilichinsky, D.

Microorganisms from permafrost viable and detectable by 16SRNA analysis; a model for Mars [abstr.]: *in* The Fifth international conference on Mars, **LPI Contribution**, Rep. No. 972, abstract 6104, 2 tables, 2 ref., 1999. *Meeting:* July 19-24, 1999, Pasadena, CA.

57000174

Zwally, H. Jay (NASA, Goddard Space Flight Center, Greenbelt, MD) and Saba, Jack L.

Driving stresses in Mars polar ice caps and conditions for ice flow [abstr.]: *in* The Fifth international conference on Mars, **LPI Contribution**, Rep. No. 972, abstract 6151, illus., 8 ref., 1999. *Meeting:* July 19-24, 1999, Pasadena, CA.

57000175

Houben, H. (Space Physics Research Institute, Sunnyvale, CA); Haberle, R. M. and Joshi, M. M.

The Martian water cycle based on 3-D modeling [abstr.]: *in* The Fifth international conference on Mars, **LPI Contribution**, Rep. No. 972, abstract 6165, 20 ref., 1999. *Meeting:* July 19-24, 1999, Pasadena, CA.

57000176

Ivanov, Anton B. (California Institute of Technology, Pasadena, CA) and Muhleman, Duane O.

Observations of polar night clouds with the Mars Orbiter Laser Altimeter (MOLA) [abstr.]: *in* The Fifth international conference on Mars, **LPI Contribution**, Rep. No. 972, abstract 6166, illus., 5 ref., 1999. *Meeting:* July 19-24, 1999, Pasadena, CA.

57000177

Schenk, P. M. (Lunar and Planetary Institute, Houston, TX) and Moore, J. M.

South polar region of Mars; topography and geology [abstr.]: *in* The Fifth international conference on Mars, **LPI Contribution**, Rep. No. 972, abstract 6178, illus., 9 ref., 1999. *Meeting:* July 19-24, 1999, Pasadena, CA.

57000178

Ivanov, Anton B. (California Institute of Technology, Pasadena, CA) and Muhleman, Duane O.

Topography of the north and south polar ice caps on Mars [abstr.]: *in* The Fifth international conference on Mars, **LPI Contribution**, Rep. No. 972, abstract 6188, illus., 7 ref., 1999. *Meeting:* July 19-24, 1999, Pasadena, CA.

57000179

Thomson, B. J. (Brown University, Providence, RI) and Head, J. W.

The role of water/ice in the resurfacing history of Hellas Basin [abstr.]: *in* The Fifth international conference on Mars, **LPI Contribution**, Rep. No. 972, abstract 6200, illus., 11 ref., 1999. *Meeting:* July 19-24, 1999, Pasadena, CA.

57000180

Zuber, M. T. (Massachusetts Institute of Technology, Department of Earth, Atmospheric and Planetary Sciences, Cambridge, MA).

Structure of the Martian polar deposits [abstr.]: *in* The Fifth international conference on Mars, **LPI Contribution**, Rep. No. 972, abstract 6229, illus., 18 ref., 1999. *Meeting:* July 19-24, 1999, Pasadena, CA.

57000181

Rodin, A. V. (IKI, Moscow, Russian Federation); Wilson, R. J.; Clancy, R. T. and Richardson, M. I.

The coupled roles of dust and water ice clouds in the Mars aphelion season [abstr.]: *in* The Fifth international conference on Mars, **LPI Contribution**, Rep. No. 972, abstract 6235, illus., 7 ref., 1999. *Meeting:* July 19-24, 1999, Pasadena, CA.

57000182

Lee, Pascal (NASA, Ames Research Center, Moffett Field, CA) and Rice, James W.
Small valleys networks on Mars; the glacial meltwater channel networks of Devon Island, Nunavut Territory, Arctic Canada, as possible analogs [abstr.]: in The Fifth international conference on Mars, **LPI Contribution**, Rep. No. 972, abstract 6237, illus., 6 ref., 1999. Meeting: July 19-24, 1999, Pasadena, CA.

57000183

Archer, David (University of Chicago, Department of the Geophysical Sciences, Chicago, IL); Winguth, Arne; Lea, David and Mahowald, Natalie.
What caused the glacial/interglacial atmospheric pCO₂ cycles?: **Reviews of Geophysics**, 38(2), p. 159-189, illus. incl. 6 tables, 171 ref., May 2000.

57000184

Khatiwala, Samar Prakash.
A tracer and modeling study of the Labrador Sea: 156 p., Doctoral, 2000, Columbia University, Palisades, NY. Available from: Univ. Microfilms.

57000185

Okhotnikov, Sergei Viktorovich (Gazprom, Russian Federation) and Burlakov, Sergei Dmitrievich.
Meditinskie aspekty makroekonomiki gazovoi promyshlennosti v usloviiakh krainego severa [Medical aspects of natural gas macroeconomics in extreme conditions of Russian North]: **Zapiski Sankt-Peterburgskogo Gosudarstvennogo Gornogo Instituta Imeni G.V. Plekhanova**, 145(1), p. 108-112 (English sum.), 2000.

57000186

Ojala, Antti E. K. (University of Turku, Department of Geology, Turku, Finland) and Saarnisto, Matti.
Comparative varve counting and magnetic properties of the 8400-yr sequence of an annually laminated sediment in Lake Valkajarvi, central Finland: **Journal of Paleolimnology**, 22(4), p. 335-348, illus. incl. 2 tables, sketch map, 39 ref., December 1999. *Holocene*

57000187

Ng, Sai L. (Chinese University of Hong Kong, Department of Geography, Hong Kong, China) and King, Roger H.
Development of a diatom-based specific conductivity model for the glacioisostatic lakes of Truelove Lowland; implications for paleoconductivity and paleoenvironmental reconstructions in Devon Island lakes, N.W.T., Canada: **Journal of Paleolimnology**, 22(4), p. 367-382, illus. incl. 8 tables, geol. sketch map, 56 ref., December 1999. *Holocene*

57000188

Pettersson, G. (Umea University, Department of Ecology and Environmental Science, Umea, Sweden); Odgaard, B. V. and Renberg, I.
Image analysis as a method to quantify sediment components: **Journal of Paleolimnology**, 22(4), p. 443-455, illus. incl. 6 tables, 35 ref., December 1999.

57000189

Etzrodt, Norbert (University of Bayreuth, Department of Plant Ecology, Bayreuth, Federal Republic of Germany); Zimmermann, Reiner; Dempewolf, Jan; Ziegler, Waldemar; Vietmeier, Jan and Holz, Andrea.

Classification off central Siberian forest types by combining interferometric radar remote sensing (ERS Tandem Mission, JERS), topographic data and ecophysiological information: *in* Remote sensing of the system Earth; a challenge for the 21st century; IGARSS'99 proceedings (Stein, Tammy I., editor), **International Geoscience and Remote Sensing Symposium**, 1999, Vol. 2, p. 720-722, illus., 4 ref., 1999. *Meeting:* IEEE 1999 international Geoscience and remote sensing symposium, June 28-July 2, 1999, Hamburg, Federal Republic of Germany.

57000190

Li, Shusun (University of Alaska Fairbanks, Geophysical Institute, Fairbanks, AK); Zhou, Xiaobing and Morris, Kim.

Measurement of snow and sea ice surface temperature and emissivity in the Ross Sea: *in* Remote sensing of the system Earth; a challenge for the 21st century; IGARSS'99 proceedings (Stein, Tammy I., editor), **International Geoscience and Remote Sensing Symposium**, 1999, Vol. 2, p. 1034-1036, illus., 2 ref., 1999. *Meeting:* IEEE 1999 international Geoscience and remote sensing symposium, June 28-July 2, 1999, Hamburg, Federal Republic of Germany.

57000191

Melentyev, V. V. (Nansen International Environmental and Remote Sensing Center, Saint Petersburg, Russian Federation); Johannessen, Ola M.; Sandven, Stein and Pettersson, Lasse H.

Ice regime study for the Ob-Yenisey estuaries using ERS SAR data: *in* Remote sensing of the system Earth; a challenge for the 21st century; IGARSS'99 proceedings (Stein, Tammy I., editor), **International Geoscience and Remote Sensing Symposium**, 1999, Vol. 2, p. 1037-1039, illus., 2 ref., 1999. *Meeting:* IEEE 1999 international Geoscience and remote sensing symposium, June 28-July 2, 1999, Hamburg, Federal Republic of Germany.

57000192

Partington, Kim (U. S. National Ice Center, Washington, DC) and Bertoia, Cheryl.

Evaluation of special sensor microwave/imager sea-ice products: *in* Remote sensing of the system Earth; a challenge for the 21st century; IGARSS'99 proceedings (Stein, Tammy I., editor), **International Geoscience and Remote Sensing Symposium**, 1999, Vol. 2, p. 1044-1046, illus. incl. 1 table, 9 ref., 1999. *Meeting:* IEEE 1999 international Geoscience and remote sensing symposium, June 28-July 2, 1999, Hamburg, Federal Republic of Germany.

57000193

Pettersson, Lasse H. (Nansen Environmental and Remote Sensing Center, Bergen, Norway); Sandven, Stein; Dalen, O.; Melentyev, V. V. and Babich, N. I.

Satellite radar ice monitoring for ice navigation of a tanker convoy in the Kara Sea: *in* Remote sensing of the system Earth; a challenge for the 21st century; IGARSS'99 proceedings (Stein, Tammy I., editor), **International Geoscience and Remote Sensing Symposium**, 1999, Vol. 2, p. 1047-1049, illus., 2 ref., 1999. *Meeting:* IEEE 1999 international Geoscience and remote sensing symposium, June 28-July 2, 1999, Hamburg, Federal Republic of Germany.

57000194

Remund, Quinn P. (Brigham Young University, MERS Laboratory, Provo, UT); Long, David G. and Drinkwater, Mark R.

Multisensor microwave sea-ice classification: *in* Remote sensing of the system Earth; a challenge for the 21st century; IGARSS'99 proceedings (Stein, Tammy I., editor), **International Geoscience and Remote Sensing Symposium**, 1999, Vol. 2, p. 1050-1052, illus., 6 ref., 1999. *Meeting:* IEEE 1999 international Geoscience and remote sensing symposium, June 28-July 2, 1999, Hamburg, Federal Republic of Germany.

57000195

Baumgartner, F. (Ohio State University, Byrd Polar Research Center, Columbus, OH); Jezek, Kenneth; Forster, R. R.; Gogineni, S. P. and Zabel, I. H. H.

Spectral and angular ground-based radar backscatter measurements of Greenland snow facies: *in* Remote sensing of the system Earth; a challenge for the 21st century; IGARSS'99 proceedings (Stein, Tammy I., editor), **International Geoscience and Remote Sensing Symposium**, 1999, Vol. 2, p. 1053-1055, illus., 5 ref., 1999. *Meeting:* IEEE 1999 international Geoscience and remote sensing symposium, June 28-July 2, 1999, Hamburg, Federal Republic of Germany.

57000196

Boyarskii, D. A. (Russian Academy of Science, Space Research Institute, Moscow, Russian Federation) and Tikhonov, V. V.

Consideration of the stratigraphy of snow cover in modeling its emissivity in the microwave range: *in* Remote sensing of the system Earth; a challenge for the 21st century; IGARSS'99 proceedings (Stein, Tammy I., editor), **International Geoscience and Remote Sensing Symposium**, 1999, Vol. 2, p. 1059-1061, illus., 4 ref., 1999. *Meeting:* IEEE 1999 international Geoscience and remote sensing symposium, June 28-July 2, 1999, Hamburg, Federal Republic of Germany.

57000197

Colombo, Alessandra (Politecnico di Milano, Milan, Italy); Lechi, Giovanmaria and Rampini, Anna.

Estimation of the snowpack water equivalent via remote sensing in the Alps: *in* Remote sensing of the system Earth; a challenge for the 21st century; IGARSS'99 proceedings (Stein, Tammy I., editor), **International Geoscience and Remote Sensing Symposium**, 1999, Vol. 2, p. 1062-1064, illus. incl. 1 table, 7 ref., 1999. *Meeting:* IEEE 1999 international Geoscience and remote sensing symposium, June 28-July 2, 1999, Hamburg, Federal Republic of Germany.

57000198

Derksen, C. (University of Waterloo, Department of Geography, Waterloo, ON, Canada) and LeDrew, E.

The influence of sensor overpass time on passive microwave derived snow water equivalent measurements: *in* Remote sensing of the system Earth; a challenge for the 21st century; IGARSS'99 proceedings (Stein, Tammy I., editor), **International Geoscience and Remote Sensing Symposium**, 1999, Vol. 2, p. 1065-1067, illus., 5 ref., 1999. *Meeting:* IEEE 1999 international Geoscience and remote sensing symposium, June 28-July 2, 1999, Hamburg, Federal Republic of Germany.

57000199

Polonsky, I. N. (National Academy of Science of Belarus, B. I. Stepanov Institute of Physics, Minsk, Belarus); Zege, E. P.; Kokhanovsky, A. A.; Katsev, I. L. and Prikhach, A. S.

The retrieval of the effective radius of snow grains and control of snow grains and control of snow pollution with GLI data: *in* Remote sensing of the system Earth; a challenge for the 21st century; IGARSS'99 proceedings (Stein, Tammy I., editor), **International Geoscience and Remote Sensing Symposium**, 1999, Vol. 2, p. 1071-1073, illus., 11 ref., 1999. *Meeting:* IEEE 1999 international Geoscience and remote sensing symposium, June 28-July 2, 1999, Hamburg, Federal Republic of Germany.

57000200

Sasaki, Masami (Hokkaido Institute of Technology, Sapporo, Japan); Fujino, Kazuo and Suzuki, Masahiro.

A snowpack model for interpreting the data obtained by a microwave radiometer: *in* Remote sensing of the system Earth; a challenge for the 21st century; IGARSS'99 proceedings (Stein, Tammy I., editor), **International Geoscience and Remote Sensing Symposium**, 1999, Vol. 2, p. 1074-1076, illus. incl. 1 table, 5 ref., 1999. *Meeting:* IEEE 1999 international Geoscience and remote sensing symposium, June 28-July 2, 1999, Hamburg, Federal Republic of Germany.

57000201

Voigt, Stefan (University of Bern, Remote Sensing Research Group, Bern, Switzerland); Koch, Michael and Baumgartner, Michael F.

Operational monitoring of snow cover in the Swiss Alps using real-time NOAA-AVHRR data: *in* Remote sensing of the system Earth; a challenge for the 21st century; IGARSS'99 proceedings (Stein, Tammy I., editor), **International Geoscience and Remote Sensing Symposium**, 1999, Vol. 2, p. 1077-1079, illus., 8 ref., 1999. *Meeting:* IEEE 1999 international Geoscience and remote sensing symposium, June 28-July 2, 1999, Hamburg, Federal Republic of Germany.

57000202

Bobrov, Pavel P. (Omsk State Pedagogical University, Omsk, Russian Federation).

Estimating of soil salinity by passive microwave observations at C band: *in* Remote sensing of the system Earth; a challenge for the 21st century; IGARSS'99 proceedings (Stein, Tammy I., editor), **International Geoscience and Remote Sensing Symposium**, 1999, Vol. 2, p. 1105-1107, illus. incl. 1 table, 5 ref., 1999. *Meeting:* IEEE 1999 international Geoscience and remote sensing symposium, June 28-July 2, 1999, Hamburg, Federal Republic of Germany.

57000203

Toll, David L. (NASA, Goddard Space Flight Center, Hydrological Sciences Branch, Greenbelt, MD); Owe, Manfred; Foster, James and Levine, Elissa.

Monitoring seasonally frozen soils using passive microwave satellite data and simulation modeling: *in* Remote sensing of the system Earth; a challenge for the 21st century; IGARSS'99 proceedings (Stein, Tammy I., editor), **International Geoscience and Remote Sensing Symposium**, 1999, Vol. 2, p. 1149-1151, illus. incl. 1 table, 3 ref., 1999. *Meeting:* IEEE 1999 international Geoscience and remote sensing symposium, June 28-July 2, 1999, Hamburg, Federal Republic of Germany.

57000204

Hoen, E. Weber (Stanford University, STAR Laboratory, Stanford, CA) and Zebker, Howard A.

Radio-wave penetration in the Greenland ice sheet inferred from interferometric correlation: *in* Remote sensing of the system Earth; a challenge for the 21st Century; IGARSS'99 proceedings (Stein, Tammy I., editor), **International Geoscience and Remote Sensing Symposium**, 1999, Vol. 5, p. 2383-2385, illus., 9 ref., 1999. *Meeting:* IEEE 1999 international geoscience and remote sensing symposium, June 28-July 2, 1999, Hamburg, Federal Republic of Germany.

57000205

Chen, Chi-Te (University of Washington, Department of Electrical Engineering, Seattle, WA); Tsang, Leung; Chang, Alfred T. C. and Ding, Kung-Hau.

Scattering by densely distributed moderate size particles with size distribution and applications to snow: *in* Remote sensing of the system Earth; a challenge for the 21st Century; IGARSS'99 proceedings (Stein, Tammy I., editor), **International Geoscience and Remote Sensing Symposium**, 1999, Vol. 5, p. 2431-2433, illus. incl. 1 table, 4 ref., 1999. *Meeting:* IEEE 1999 international geoscience and remote sensing symposium, June 28-July 2, 1999, Hamburg, Federal Republic of Germany.

57000206

Zaitsev, Valentin (NPO Mashinostroyenia, Moscow, Russian Federation); Litovchenko, Konstantin and Romanov, Alexey.

Remote sensing of eddies in Norwegian Sea: *in* Remote sensing of the system Earth; a challenge for the 21st Century; IGARSS'99 proceedings (Stein, Tammy I., editor), **International Geoscience and Remote Sensing Symposium**, 1999, Vol. 5, p. 2536-2538, illus., 4 ref., 1999. *Meeting:* IEEE 1999 international geoscience and remote sensing symposium, June 28-July 2, 1999, Hamburg, Federal Republic of Germany.

57000207

Akimov, Dmitry B. (Nansen International Environmental and Remote Sensing Center, Saint Petersburg, Russian Federation); Johannessen, Ola M.; Mitnik, Leonid M. and Volkov, Vladimir A.

Satellite radar signatures of fronts in the Ob and Yenisey estuaries in the Kara Sea: *in* Remote sensing of the system Earth; a challenge for the 21st Century; IGARSS'99 proceedings (Stein, Tammy I., editor), **International Geoscience and Remote Sensing Symposium**, 1999, Vol. 5, p. 2542-2544, illus. incl. sketch map, 9 ref., 1999. *Meeting:* IEEE 1999 international geoscience and remote sensing symposium, June 28-July 2, 1999, Hamburg, Federal Republic of Germany.

57000208

Soh, Leen-Kiat (University of Kansas, Department of Electrical Engineering and Computer Science, Lawrence, KS) and Tsatsoulis, Costas.

Multisource data and knowledge fusion for intelligent SAR sea ice classification: *in* Remote sensing of the system Earth; a challenge for the 21st century; IGARSS 99 proceedings (Stein, Tammy I., editor), **International Geoscience and Remote Sensing Symposium**, 1999, Vol. 1, p. 68-70, 1 ref., 1999. *Meeting:* IEEE 1999 international Geoscience and remote sensing symposium, June 28-July 2, 1999, Hamburg, Federal Republic of Germany.

57000209

Davis, Curt H. (University of Missouri at Columbia/Kansas City, Electrical and Computer Engineering, Kansas City, MO) and Feng, Gang.

Seasonal, interannual, and long-term elevation change of the East Antarctic ice sheet from satellite radar altimetry: *in* Remote sensing of the system Earth; a challenge for the 21st century; IGARSS 99 proceedings (Stein, Tammy I., editor), **International Geoscience and Remote Sensing Symposium**, 1999, Vol. 1, p. 86-88, illus. incl. 1 table, 5 ref., 1999. *Meeting:* IEEE 1999 international Geoscience and remote sensing symposium, June 28-July 2, 1999, Hamburg, Federal Republic of Germany.

57000210

Legarsky, J. J. (University of Kansas, Radar Systems and Remote Sensing Laboratory, Lawrence, KS); Gogineni, S. P.; Kanagaratnam, P.; Akins, T. L. and Wong, Y. C.

Ice thickness measurements of the Southwest Greenland 2000-m contour line: *in* Remote sensing of the system Earth; a challenge for the 21st century; IGARSS 99 proceedings (Stein, Tammy I., editor), **International Geoscience and Remote Sensing Symposium**, 1999, Vol. 1, p. 89-91, illus. incl. sketch map, 7 ref., 1999. *Meeting:* IEEE 1999 international Geoscience and remote sensing symposium, June 28-July 2, 1999, Hamburg, Federal Republic of Germany.

57000211

Raney, R. Keith (Johns Hopkins University, Applied Physics Laboratory, Laurel, MD); Gotwols, B. L. and Jensen, J. R.

Optimal processing of radar ice sounding data: *in* Remote sensing of the system Earth; a challenge for the 21st century; IGARSS 99 proceedings (Stein, Tammy I., editor), **International Geoscience and Remote Sensing Symposium**, 1999, Vol. 1, p. 92-94, illus., 7 ref., 1999. *Meeting:* IEEE 1999 international Geoscience and remote sensing symposium, June 28-July 2, 1999, Hamburg, Federal Republic of Germany.

57000212

Kanagaratnam, P. (University of Kansas, Radar Systems and Remote Sensing Laboratory, Lawrence, KS); Gogineni, S. P.; Legarsky, J. J.; Akins, T. L.; Gundestrup, N.; Larsen, Lars and Kipfstuhl, Josef.

High-resolution monitoring of internal layers at NGRIP: *in* Remote sensing of the system Earth; a challenge for the 21st century; IGARSS 99 proceedings (Stein, Tammy I., editor), **International Geoscience and Remote Sensing Symposium**, 1999, Vol. 1, p. 95-97, illus., 4 ref., 1999. *Meeting:* IEEE 1999 international Geoscience and remote sensing symposium, June 28-July 2, 1999, Hamburg, Federal Republic of Germany.

57000213

Mohr, Johan J. (Technical University of Denmark, Danish Center for Remote Sensing, Lyngby, Denmark) and Madsen, Soren N.

Error analysis for interferometric SAR measurements of ice sheet flow: *in* Remote sensing of the system Earth; a challenge for the 21st century; IGARSS 99 proceedings (Stein, Tammy I., editor), **International Geoscience and Remote Sensing Symposium**, 1999, Vol. 1, p. 98-100, illus. incl. 2 tables, 4 ref., 1999. *Meeting:* IEEE 1999 international Geoscience and remote sensing symposium, June 28-July 2, 1999, Hamburg, Federal Republic of Germany.

57000214

Makynen, Marko (Helsinki University of Technology, Laboratory of Space Technology, Hvit, Finland) and Hallikainen, Martti.

Passive microwave signature observations of Baltic Sea ice: *in* Remote sensing of the system Earth; a challenge for the 21st century; IGARSS 99 proceedings (Stein, Tammy I., editor), **International Geoscience and Remote Sensing Symposium**, 1999, Vol. 1, p. 101-103, illus. incl. 3 tables, 6 ref., 1999. *Meeting:* IEEE 1999 international Geoscience and remote sensing symposium, June 28-July 2, 1999, Hamburg, Federal Republic of Germany.

57000215

Matsuoka, Takeshi (Communications Research Laboratory, Global Environment Division, Tokyo, Japan); Uratsuka, Seiho; Takahashi, Akira; Kobayashi, Tatsuhiro; Satake, Makoto; Nadai, Akitsugu; Umehara, Toshihiko; Wakabayashi, Hiroyuki and Nishio, Fumihiko.

A backscattering model for bubbles in lake ice and comparisons with satellite and airborne SAR data: *in* Remote sensing of the system Earth; a challenge for the 21st century; IGARSS 99 proceedings (Stein, Tammy I., editor), **International Geoscience and Remote Sensing Symposium**, 1999, Vol. 1, p. 107-109, illus. incl. 1 table, 5 ref., 1999. *Meeting:* IEEE 1999 international Geoscience and remote sensing symposium, June 28-July 2, 1999, Hamburg, Federal Republic of Germany.

57000216

Lemke, Henriette (GKSS Research Center, Institute for Atmospheric Physics, Geesthacht, Federal Republic of Germany); Quante, Markus; Danne, Olaf and Raschke, Ehrhard.

The role of ice particle shape and size distributions in polarimetric radar measurands at 95 GHz: *in* Remote sensing of the system Earth; a challenge for the 21st century; IGARSS 99 proceedings (Stein, Tammy I., editor), **International Geoscience and Remote Sensing Symposium**, 1999, Vol. 1, p. 149-151, 9 ref., 1999. *Meeting:* IEEE 1999 international Geoscience and remote sensing symposium, June 28-July 2, 1999, Hamburg, Federal Republic of Germany.

57000217

Johannessen, Ola M. (Nansen Environmental and Remote Sensing Center, Bergen, Norway); Miles, Martin W. and Shalina, Elena V.

Two decades of microwave satellite observations of Arctic sea ice variability and trends: *in* Remote sensing of the system Earth; a challenge for the 21st century; IGARSS 99 proceedings (Stein, Tammy I., editor), **International Geoscience and Remote Sensing Symposium**, 1999, Vol. 1, p. 311-313, illus., 16 ref., 1999. *Meeting:* IEEE 1999 international Geoscience and remote sensing symposium, June 28-July 2, 1999, Hamburg, Federal Republic of Germany.

57000218

Drinkwater, Mark R. (California Institute of Technology, Jet Propulsion Laboratory, Oak Grove Drive, CA) and Liu, Xiang.

Active and passive microwave determination of the circulation and characteristics of Weddell and Ross sea ice: *in* Remote sensing of the system Earth; a challenge for the 21st century; IGARSS 99 proceedings (Stein, Tammy I., editor), **International Geoscience and Remote Sensing Symposium**, 1999, Vol. 1, p. 314-316, illus. incl. sketch map, 12 ref., 1999. *Meeting:* IEEE 1999 international Geoscience and remote sensing symposium, June 28-July 2, 1999, Hamburg, Federal Republic of Germany.

57000219

Dokken, Sverre Thune (Chalmers University of Technology, Department of Radio and Space Science, Gothenburg, Sweden); Winsor, Peter; Askne, Jan and Bjork, Goran.

Temporal variability of polynyas from combined ERS and SSM/I investigations: *in* Remote sensing of the system Earth; a challenge for the 21st century; IGARSS 99 proceedings (Stein, Tammy I., editor), **International Geoscience and Remote Sensing Symposium**, 1999, Vol. 1, p. 317-319, illus., 9 ref., 1999. *Meeting:* IEEE 1999 international Geoscience and remote sensing symposium, June 28-July 2, 1999, Hamburg, Federal Republic of Germany.

57000220

Key, Jeffrey R. (Boston University, Department of Geography, Boston, MA) and Wong, Adeline M.

Estimating the cloudy sky surface temperature of sea ice with optical satellite data: *in* Remote sensing of the system Earth; a challenge for the 21st century; IGARSS 99 proceedings (Stein, Tammy I., editor), **International Geoscience and Remote Sensing Symposium**, 1999, Vol. 1, p. 320-322, illus., 8 ref., 1999. *Meeting:* IEEE 1999 international Geoscience and remote sensing symposium, June 28-July 2, 1999, Hamburg, Federal Republic of Germany.

57000221

Shokr, Mohammed (Atmospheric Environment Service, Toronto, ON, Canada) and Agnew, Tom.

Sea ice parameters retrieval using synergetic observations from SSM/I 85GHz and AVHRR: *in* Remote sensing of the system Earth; a challenge for the 21st century; IGARSS 99 proceedings (Stein, Tammy I., editor), **International Geoscience and Remote Sensing Symposium**, 1999, Vol. 1, p. 323-325, illus., 9 ref., 1999. *Meeting:* IEEE 1999 international Geoscience and remote sensing symposium, June 28-July 2, 1999, Hamburg, Federal Republic of Germany.

57000222

Martin, Seelye (University of Washington, Seattle, WA) and Drucker, Robert.

Satellite derived estimates of the interannual variability of the heat balance and polynya ice production for the Okhotsk Sea [abstr.]: *in* Remote sensing of the system Earth; a challenge for the 21st century; IGARSS 99 proceedings (Stein, Tammy I., editor), **International Geoscience and Remote Sensing Symposium**, 1999, Vol. 1, p. 326, sketch map, 2 ref., 1999. *Meeting:* IEEE 1999 international Geoscience and remote sensing symposium, June 28-July 2, 1999, Hamburg, Federal Republic of Germany.

57000223

Kubo, Mamoru (Kanazawa University, Graduate School of Natural Science and Technology, Kanazawa, Japan); Muramoto, Ken-ichiro and Yamanouchi, Takashi.

Detection of clouds from NOAA/AVHRR Channel 4 in the Antarctic: *in* Remote sensing of the system Earth; a challenge for the 21st century; IGARSS 99 proceedings (Stein, Tammy I., editor), **International Geoscience and Remote Sensing Symposium**, 1999, Vol. 1, p. 690-692, illus. incl. sketch map, 3 ref., 1999. *Meeting:* IEEE 1999 international Geoscience and remote sensing symposium, June 28-July 2, 1999, Hamburg, Federal Republic of Germany.

57000224

Soh, Leen-Kiat (University of Kansas, Department of Electrical Engineering and Computer Science, Lawrence, KS) and Tsatsoulis, Costas.

Adaptive multiresolution quantization for contextual information gain in SAR sea ice images: *in IGARSS '99 proceedings; IEEE 1999 international Geoscience and remote sensing symposium; remote sensing of the system Earth; a challenge for the 21st century* (Stein, Tammy I., editor), **International Geoscience and Remote Sensing Symposium**, 1999, Vol. 3, p. 1567-1569, illus., 5 ref., 1999. *Meeting: IEEE 1999 international Geoscience and remote sensing symposium, June 28-July 2, 1999, Hamburg, Federal Republic of Germany.*

57000225

Johannessen, Ola M. (Nansen Environmental and Remote Sensing Center, Bergen, Norway); Alexandrov, Vitali Yu.; Sandven, Stein; Pettersson, Lasse H.; Bobylev, Leonid P.; Khizhnichenko, Vitali M.; Volkov, Alexey M.; Lundhaug, Maria; Dalen, Oyvind; Kloster, Kjell; Bogdanov, Andrey V. and Zaitsev, Lev V.

Synergistic use of RADARSAT, ERS and "Okean" radar images for sea ice studies in the Northern Sea Route: *in IGARSS '99 proceedings; IEEE 1999 international Geoscience and remote sensing symposium; remote sensing of the system Earth; a challenge for the 21st century* (Stein, Tammy I., editor), **International Geoscience and Remote Sensing Symposium**, 1999, Vol. 3, p. 1570-1572, illus., 8 ref., 1999. *Meeting: IEEE 1999 international Geoscience and remote sensing symposium, June 28-July 2, 1999, Hamburg, Federal Republic of Germany.*

57000226

Bertoia, Cheryl (U. S. National Ice Center, Washington, DC); Gineris, Denise; Partington, Kim; Soh, Leen-Kiat and Tsatsoulis, Costas.

Transition from research to operations; ARKTOS; a knowledge-based sea ice classification system: *in IGARSS '99 proceedings; IEEE 1999 international Geoscience and remote sensing symposium; remote sensing of the system Earth; a challenge for the 21st century* (Stein, Tammy I., editor), **International Geoscience and Remote Sensing Symposium**, 1999, Vol. 3, p. 1573-1575, illus., 5 ref., 1999. *Meeting: IEEE 1999 international Geoscience and remote sensing symposium, June 28-July 2, 1999, Hamburg, Federal Republic of Germany.*

57000227

Macklin, Trevor (Marconi Research Centre, Essex, United Kingdom); Oddy, Clare; Knight, Peter; Flatman, Jane; Pilling, Ian and Brownsword, Chris.

Analysis of spaceborne multisensor observations of sea ice for operational applications: *in IGARSS '99 proceedings; IEEE 1999 international Geoscience and remote sensing symposium; remote sensing of the system Earth; a challenge for the 21st century* (Stein, Tammy I., editor), **International Geoscience and Remote Sensing Symposium**, 1999, Vol. 3, p. 1576-1578, 3 ref., 1999. *Meeting: IEEE 1999 international Geoscience and remote sensing symposium, June 28-July 2, 1999, Hamburg, Federal Republic of Germany.*

57000228

Partington, Kim (U. S. National Ice Center, Washington, DC); Keller, Mary-Ruth; Seymour, Paul and Bertoia, Cheryl.

Data fusion for use of passive microwave data in operational sea-ice monitoring: *in IGARSS '99 proceedings; IEEE 1999 international Geoscience and remote sensing symposium; remote sensing of the system Earth; a challenge for the 21st century* (Stein, Tammy I., editor), **International Geoscience and Remote Sensing Symposium**, 1999, Vol. 3, p. 1579-1581, illus., 5 ref., 1999. *Meeting: IEEE 1999 international Geoscience and remote sensing symposium, June 28-July 2, 1999, Hamburg, Federal Republic of Germany.*

57000229

Schmidt, R. (University of Bremen, Institute of Environmental Physics, Bremen, Federal Republic of Germany).

Validation of ice edges derived from SSM/I data using ERS-SAR images: *in* IGARSS '99 proceedings; IEEE 1999 international Geoscience and remote sensing symposium; remote sensing of the system Earth; a challenge for the 21st century (Stein, Tammy I., editor), **International Geoscience and Remote Sensing Symposium**, 1999, Vol. 3, p. 1582-1584, illus. incl. 1 table, 4 ref., 1999. *Meeting:* IEEE 1999 international Geoscience and remote sensing symposium, June 28-July 2, 1999, Hamburg, Federal Republic of Germany.

57000230

Ezraty, Robert (IFREMER/Centre de Brest, Département d'Océanographie Spatiale, Plouzane, France).

Arctic sea ice microwave signatures; a Lagrangian approach during the NSCAT mission: *in* IGARSS '99 proceedings; IEEE 1999 international Geoscience and remote sensing symposium; remote sensing of the system Earth; a challenge for the 21st century (Stein, Tammy I., editor), **International Geoscience and Remote Sensing Symposium**, 1999, Vol. 3, p. 1585-1587, illus. incl. 1 table, 5 ref., 1999. *Meeting:* IEEE 1999 international Geoscience and remote sensing symposium, June 28-July 2, 1999, Hamburg, Federal Republic of Germany.

57000231

Johnsen, Klaus-Peter (University of Bremen, Institute of Environmental Physics, Bremen, Federal Republic of Germany); Heygster, Georg and Darovskikh, Andrei.

Passive microwave in situ measurements over snow covered Siberian sea ice compared with SSM/I: *in* IGARSS '99 proceedings; IEEE 1999 international Geoscience and remote sensing symposium; remote sensing of the system Earth; a challenge for the 21st century (Stein, Tammy I., editor), **International Geoscience and Remote Sensing Symposium**, 1999, Vol. 3, p. 1588-1590, illus., 3 ref., 1999. *Meeting:* IEEE 1999 international Geoscience and remote sensing symposium, June 28-July 2, 1999, Hamburg, Federal Republic of Germany.

57000232

Lehner, Susanne (Deutsches Zentrum für Luft- und Raumfahrt, Wessling, Federal Republic of Germany); Schulz-Stellenfleth, J.; Schättler, B. and Weinreich, I.

Statistical analysis of SAR wind, wave, and sea ice parameter estimation techniques using complex ERS-2 imagettes: *in* IGARSS '99 proceedings; IEEE 1999 international Geoscience and remote sensing symposium; remote sensing of the system Earth; a challenge for the 21st century (Stein, Tammy I., editor), **International Geoscience and Remote Sensing Symposium**, 1999, Vol. 3, p. 1628-1630, illus., 10 ref., 1999. *Meeting:* IEEE 1999 international Geoscience and remote sensing symposium, June 28-July 2, 1999, Hamburg, Federal Republic of Germany.

57000233

Suzuki, Masahiro (Hokkaido Institute of Technology, Sapporo, Japan); Fujino, Kazuo; Ohashi, Yoshihiko and Sasaki, Masami.

Estimation of the snowpack parameters from the data obtained by a satellite-borne multi-frequency microwave radiometer: *in* IGARSS '99 proceedings; IEEE 1999 international Geoscience and remote sensing symposium; remote sensing of the system Earth; a challenge for the 21st century (Stein, Tammy I., editor), **International Geoscience and Remote Sensing Symposium**, 1999, Vol. 3, p. 1783-1785, illus. incl. 3 tables, 5 ref., 1999. *Meeting:* IEEE 1999 international Geoscience and remote sensing symposium, June 28-July 2, 1999, Hamburg, Federal Republic of Germany.

57000234

Hallikainen, Martti (Helsinki University of Technology, Laboratory of Space Technology, Helsinki, Finland); Tigerstedt, Karl; Jaaskelainen, Ville S.; Pulliaisen, Jouni and Koskinen, Jarkko.

Microwave radiometer response to snow in the 6.8 to 94 GHz range for various land-cover categories: *in* IGARSS '99 proceedings; IEEE 1999 international Geoscience and remote sensing symposium; remote sensing of the system Earth; a challenge for the 21st century (Stein, Tammy I., editor), **International Geoscience and Remote Sensing Symposium**, 1999, Vol. 3, p. 1786-1788, illus. incl. 2 tables, 2 ref., 1999. *Meeting:* IEEE 1999 international Geoscience and remote sensing symposium, June 28-July 2, 1999, Hamburg, Federal Republic of Germany.

57000235

Arslan, Ali Nadir (Helsinki University of Technology, Laboratory of Space Technology, Helsinki, Finland); Praks, Jaan; Koskinen, Jarkko and Hallikainen, Martti.

An empirical model for retrieving water equivalent of dry snow from C-band SAR data: *in* IGARSS '99 proceedings; IEEE 1999 international Geoscience and remote sensing symposium; remote sensing of the system Earth; a challenge for the 21st century (Stein, Tammy I., editor), **International Geoscience and Remote Sensing Symposium**, 1999, Vol. 3, p. 1789-1791, illus. incl. 2 tables, 7 ref., 1999. *Meeting:* IEEE 1999 international Geoscience and remote sensing symposium, June 28-July 2, 1999, Hamburg, Federal Republic of Germany.

57000236

Ferro-Famil, L. (University of Nantes, IRESTE, Nantes, France); Pottier, E.; Saillard, J.; Dedieu, J. P.; Bernier, Monique and Fortin, J. P.

The potential of full polarimetric SAR data to classify dry snowcover: *in* IGARSS '99 proceedings; IEEE 1999 international Geoscience and remote sensing symposium; remote sensing of the system Earth; a challenge for the 21st century (Stein, Tammy I., editor), **International Geoscience and Remote Sensing Symposium**, 1999, Vol. 3, p. 1792-1794, illus., 7 ref., 1999. *Meeting:* IEEE 1999 international Geoscience and remote sensing symposium, June 28-July 2, 1999, Hamburg, Federal Republic of Germany.

57000237

Shi, Jiancheng (University of California at Santa Barbara, Institute for Computational Earth System Science (ICESS), Santa Barbara, CA).

Estimation of snow fraction using AVIRIS simulated ASTER image data: *in* IGARSS '99 proceedings; IEEE 1999 international Geoscience and remote sensing symposium; remote sensing of the system Earth; a challenge for the 21st century (Stein, Tammy I., editor), **International Geoscience and Remote Sensing Symposium**, 1999, Vol. 3, p. 1795-1797, illus., 7 ref., 1999. *Meeting:* IEEE 1999 international Geoscience and remote sensing symposium, June 28-July 2, 1999, Hamburg, Federal Republic of Germany.

57000238

Guneriusson, Tore (NORUT IT, Tromso, Norway); Johnsen, Harald and Lauknes, Inge.

Snow cover mapping capabilities using RADARSAT standard mode data: *in* IGARSS '99 proceedings; IEEE 1999 international Geoscience and remote sensing symposium; remote sensing of the system Earth; a challenge for the 21st century (Stein, Tammy I., editor), **International Geoscience and Remote Sensing Symposium**, 1999, Vol. 3, p. 1798-1800, illus. incl. 1 table, 6 ref., 1999. *Meeting:* IEEE 1999 international Geoscience and remote sensing symposium, June 28-July 2, 1999, Hamburg, Federal Republic of Germany.

57000239

Chen, Chi-Te (University of Washington, Department of Electrical Engineering, Seattle, WA); Wang, Yuankai; Nijssen, Bart; Tsang, Leung; Hwang, Jenq-Neng and Lettenmaier, Dennis P.

Passive remote sensing of snow with hydrological model and constraints on grain size and snow density: *in* IGARSS '99 proceedings; IEEE 1999 international Geoscience and remote sensing symposium; remote sensing of the system Earth; a challenge for the 21st century (Stein, Tammy I., editor), **International Geoscience and Remote Sensing Symposium**, 1999, Vol. 3, p. 1801-1803, illus., 3 ref., 1999. *Meeting:* IEEE 1999 international Geoscience and remote sensing symposium, June 28-July 2, 1999, Hamburg, Federal Republic of Germany.

57000240

Wang, Zhijun (University of Alaska at Fairbanks, Geophysical Institute, Fairbanks, AK) and Li, Shusun.

Detection of winter frost heaving of the active layer of Arctic permafrost using SAR differential interferograms: *in* Remote sensing of the system Earth; a challenge for the 21st century; IGARSS'99 proceedings (Stein, Tammy I., editor), **International Geoscience and Remote Sensing Symposium**, 1999, Vol. 4, p. 1946-1948, illus., 17 ref., 1999. *Meeting:* IEEE 1999 international Geoscience and remote sensing symposium, June 28-July 2, 1999, Hamburg, Federal Republic of Germany.

57000241

Kenyi, Lado W. (Joanneum Research Institute of Digital Image Processing, Graz, Austria); Raggam, Hannes and Sharov, Aleksey.

Interferometric image analysis in the high Arctic; specific features of general approach: *in* Remote sensing of the system Earth; a challenge for the 21st century; IGARSS'99 proceedings (Stein, Tammy I., editor), **International Geoscience and Remote Sensing Symposium**, 1999, Vol. 4, p. 1949-1953, illus. incl. 3 tables, 12 ref., 1999. *Meeting:* IEEE 1999 international Geoscience and remote sensing symposium, June 28-July 2, 1999, Hamburg, Federal Republic of Germany.

57000242

Wangensteen, Bjorn (University of Oslo, Department of Physical Geography, Oslo, Norway); Weydahl, Dan Johan and Hagen, Jon Ove.

Mapping glacier velocities at Spitsbergen using ERS tandem SAR data: *in* Remote sensing of the system Earth; a challenge for the 21st century; IGARSS'99 proceedings (Stein, Tammy I., editor), **International Geoscience and Remote Sensing Symposium**, 1999, Vol. 4, p. 1954-1956, illus. incl. 1 table, 6 ref., 1999. *Meeting:* IEEE 1999 international Geoscience and remote sensing symposium, June 28-July 2, 1999, Hamburg, Federal Republic of Germany.

57000243

Schulz-Stellenfleth, J. (Deutsches Zentrum Für Luft- und Raumfahrt, Wessling, Federal Republic of Germany) and Lehner, S.

A new SAR inversion scheme for ocean waves travelling into sea ice: *in* Remote sensing of the system Earth; a challenge for the 21st century; IGARSS'99 proceedings (Stein, Tammy I., editor), **International Geoscience and Remote Sensing Symposium**, 1999, Vol. 4, p. 2010-2012, illus., 14 ref., 1999. *Meeting:* IEEE 1999 international Geoscience and remote sensing symposium, June 28-July 2, 1999, Hamburg, Federal Republic of Germany.

57000244

Alexandrov, Vitaly Yu. (Nansen International Environmental and Remote Sensing Center, Saint Petersburg, Russian Federation); Martin, Thomas; Kolatschek, Josef S.; Eicken, Hajo; Kreyscher, Martin and Makshtas, Alexandr P.

Studies of sea-ice motion in the Laptev Sea with the use of satellite remote sensing and numerical modelling: *in* Remote sensing of the system Earth; a challenge for the 21st century; IGARSS'99 proceedings (Stein, Tammy I., editor), **International Geoscience and Remote Sensing Symposium**, 1999, Vol. 4, p. 2013-2015, illus. incl. sketch map, 9 ref., 1999. *Meeting:* IEEE 1999 international Geoscience and remote sensing symposium, June 28-July 2, 1999, Hamburg, Federal Republic of Germany.

57000245

Eicken, Hajo (University of Alaska at Fairbanks, Geophysical Institute, Fairbanks, AK); Blahak, Ulrich; Dierking, Wolfgang and Dmitrenko, Igor.

Spatial and temporal variability of SAR backscatter signatures of coastal sea-ice types off the Lena River delta (Laptev Sea): *in* Remote sensing of the system Earth; a challenge for the 21st century; IGARSS'99 proceedings (Stein, Tammy I., editor), **International Geoscience and Remote Sensing Symposium**, 1999, Vol. 4, p. 2016-2018, illus. incl. sketch map, 6 ref., 1999. *Meeting:* IEEE 1999 international Geoscience and remote sensing symposium, June 28-July 2, 1999, Hamburg, Federal Republic of Germany.

57000246

LeDrew, Ellsworth F. (University of Waterloo, Department of Geography, Waterloo, ON, Canada) and Derksen, Christopher.

SSM/I imagery of sea ice, Q-vectors and synoptic-scale linkages between the atmosphere and cryosphere; eighteen years of variability in the Beaufort Sea; the example of principal component one of sea ice: *in* Remote sensing of the system Earth; a challenge for the 21st century; IGARSS'99 proceedings (Stein, Tammy I., editor), **International Geoscience and Remote Sensing Symposium**, 1999, Vol. 4, p. 2019-2022, illus. incl. sketch map, 2 ref., 1999. *Meeting:* IEEE 1999 international Geoscience and remote sensing symposium, June 28-July 2, 1999, Hamburg, Federal Republic of Germany.

57000247

Shalina, Elena V. (Nansen International Environmental and Remote Sensing Center, Saint Petersburg, Russian Federation); Johannessen, Ola M. and Miles, Martin W.

Arctic ice transformations; multiyear ice changes in comparison with summer minima: *in* Remote sensing of the system Earth; a challenge for the 21st century; IGARSS'99 proceedings (Stein, Tammy I., editor), **International Geoscience and Remote Sensing Symposium**, 1999, Vol. 4, p. 2023-2025, illus., 9 ref., 1999. *Meeting:* IEEE 1999 international Geoscience and remote sensing symposium, June 28-July 2, 1999, Hamburg, Federal Republic of Germany.

57000248

Miao, Jungang (University of Bremen, Institute of Environmental Physics, Bremen, Federal Republic of Germany); Johnsen, Klaus-Peter and Heygster, Georg.

Signature of clouds over sea ice detected by the special sensor microwave/imager (SSM/I): *in* Remote sensing of the system Earth; a challenge for the 21st century; IGARSS'99 proceedings (Stein, Tammy I., editor), **International Geoscience and Remote Sensing Symposium**, 1999, Vol. 4, p. 2075-2077, illus., 6 ref., 1999. *Meeting:* IEEE 1999 international Geoscience and remote sensing symposium, June 28-July 2, 1999, Hamburg, Federal Republic of Germany.

57000249

Karvonen, Juha (Finnish Institute of Marine Research, Helsinki, Finland) and Simila, Markku.

Wavelet-based visual coding of sea ice SAR images: *in* Remote sensing of the system Earth; a challenge for the 21st century; IGARSS'99 proceedings (Stein, Tammy I., editor), **International Geoscience and Remote Sensing Symposium**, 1999, Vol. 4, p. 2254-2257, illus., 8 ref., 1999. *Meeting:* IEEE 1999 international Geoscience and remote sensing symposium, June 28-July 2, 1999, Hamburg, Federal Republic of Germany.